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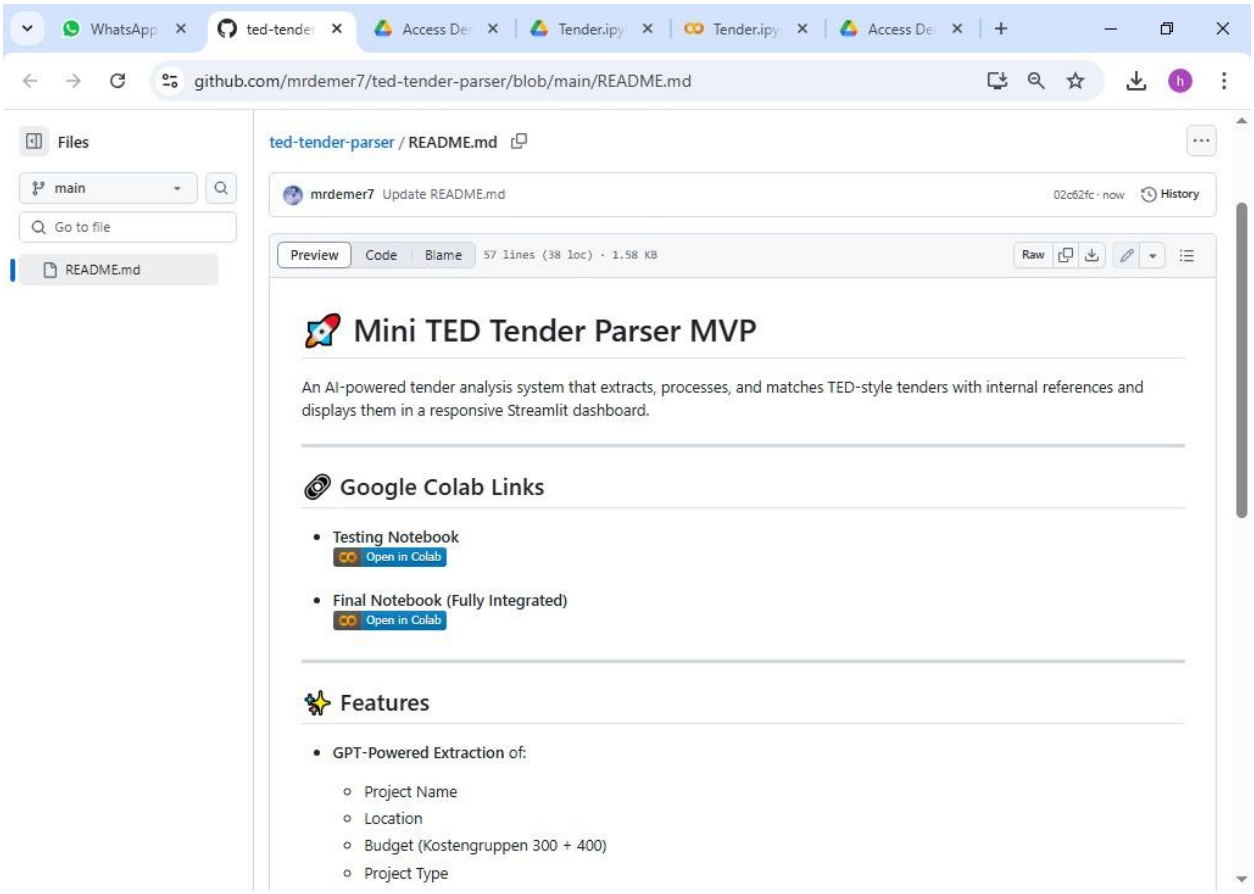

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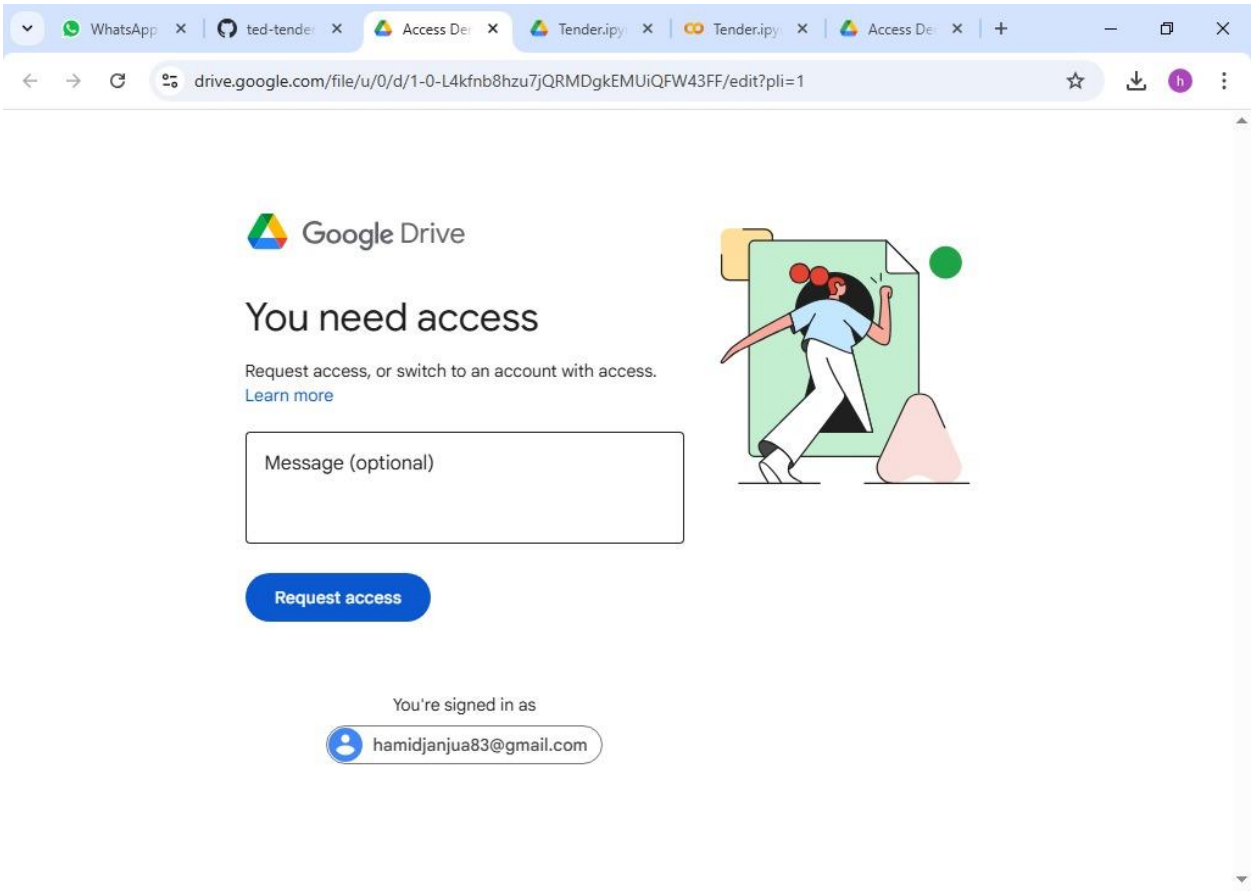

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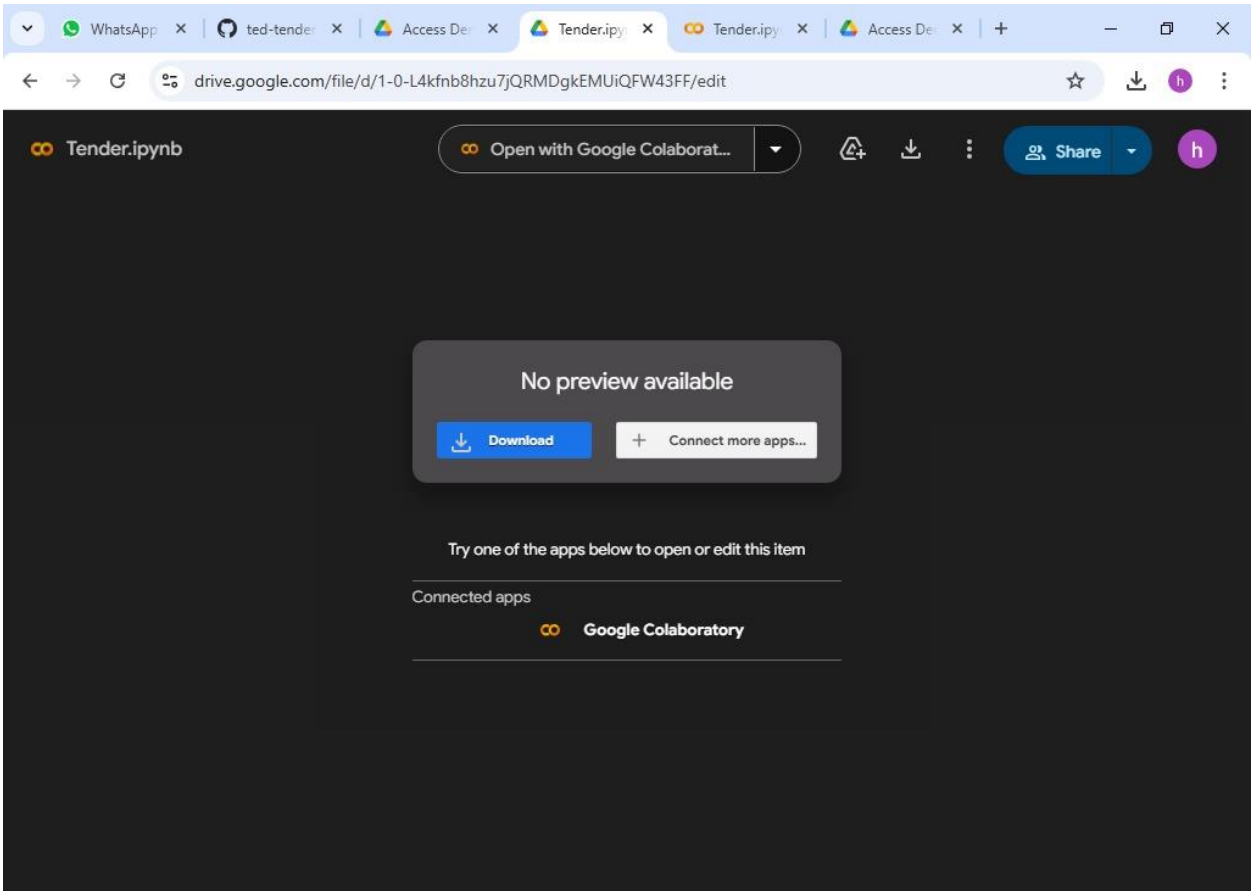
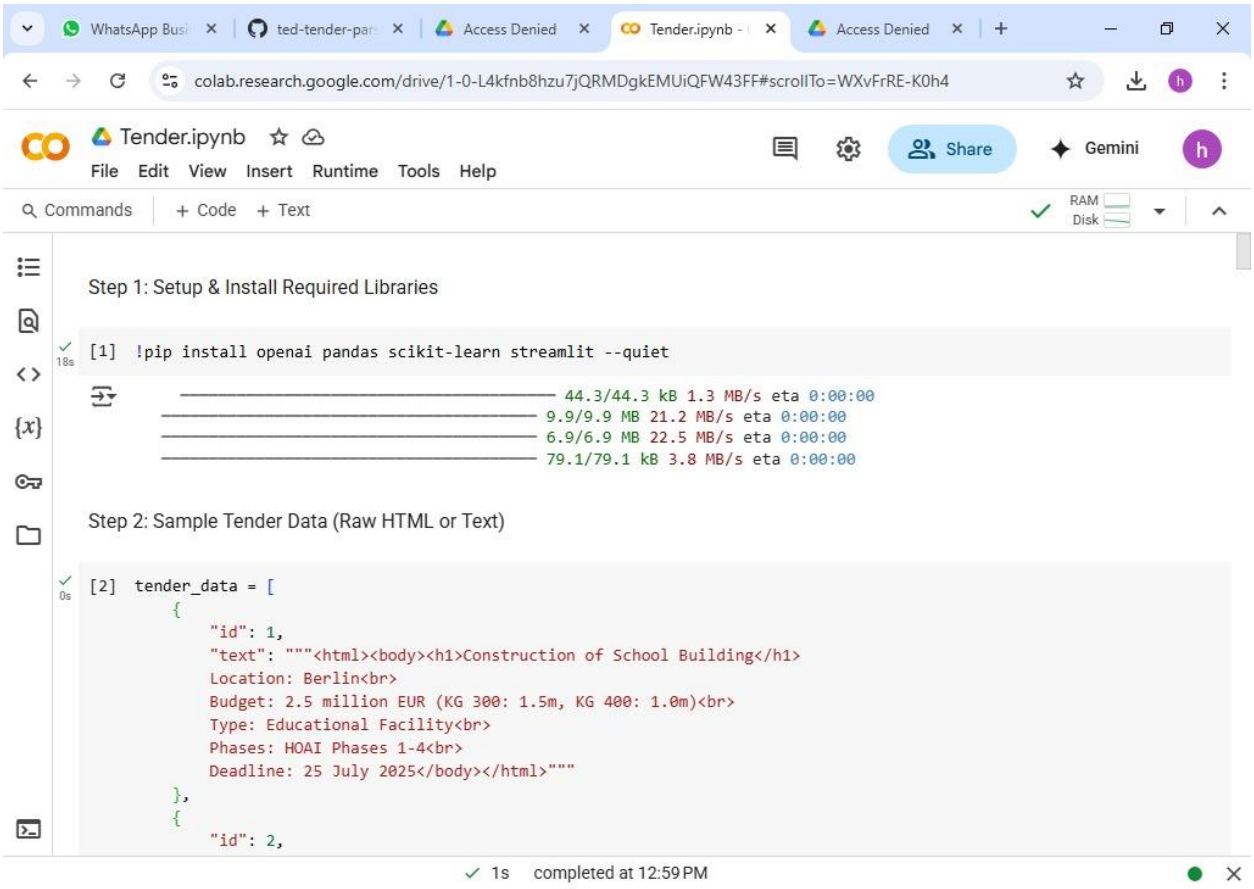
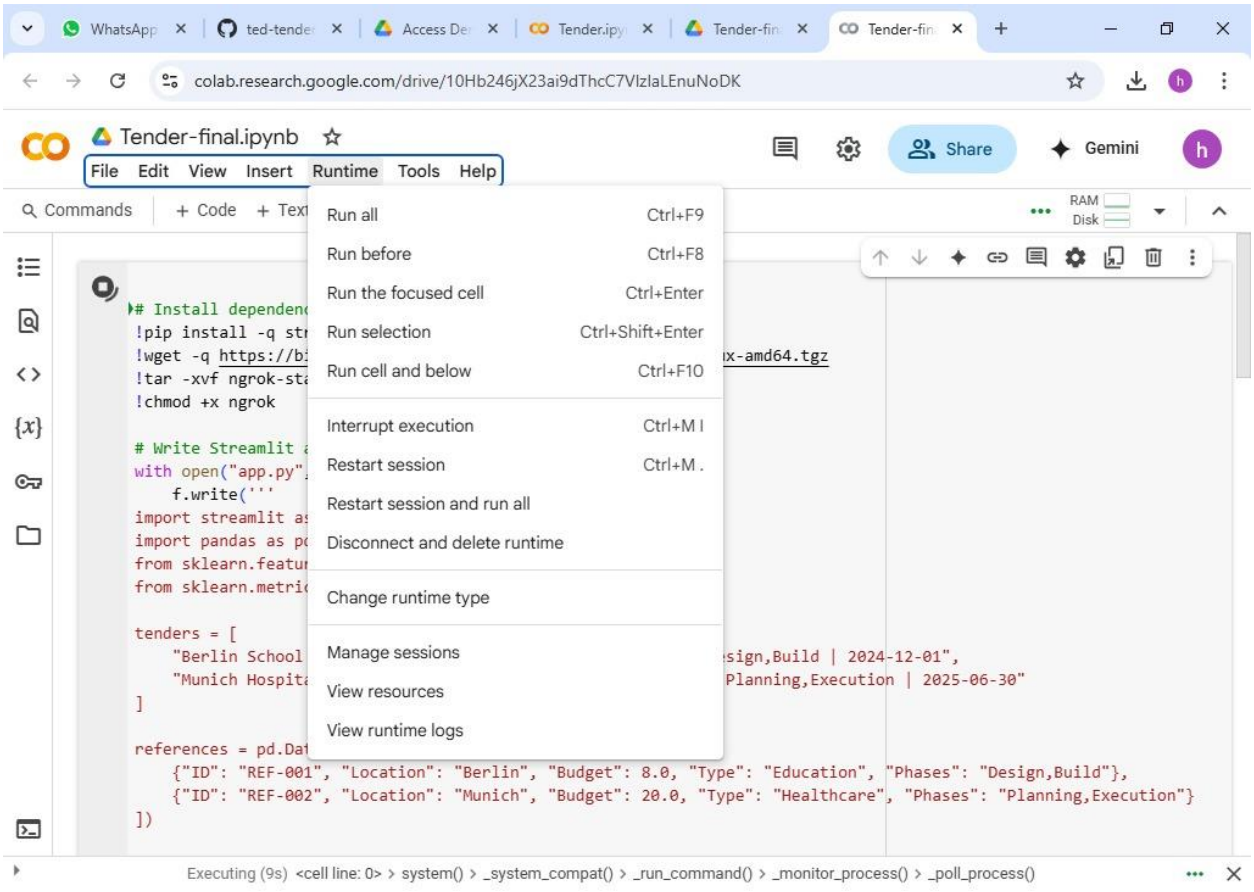
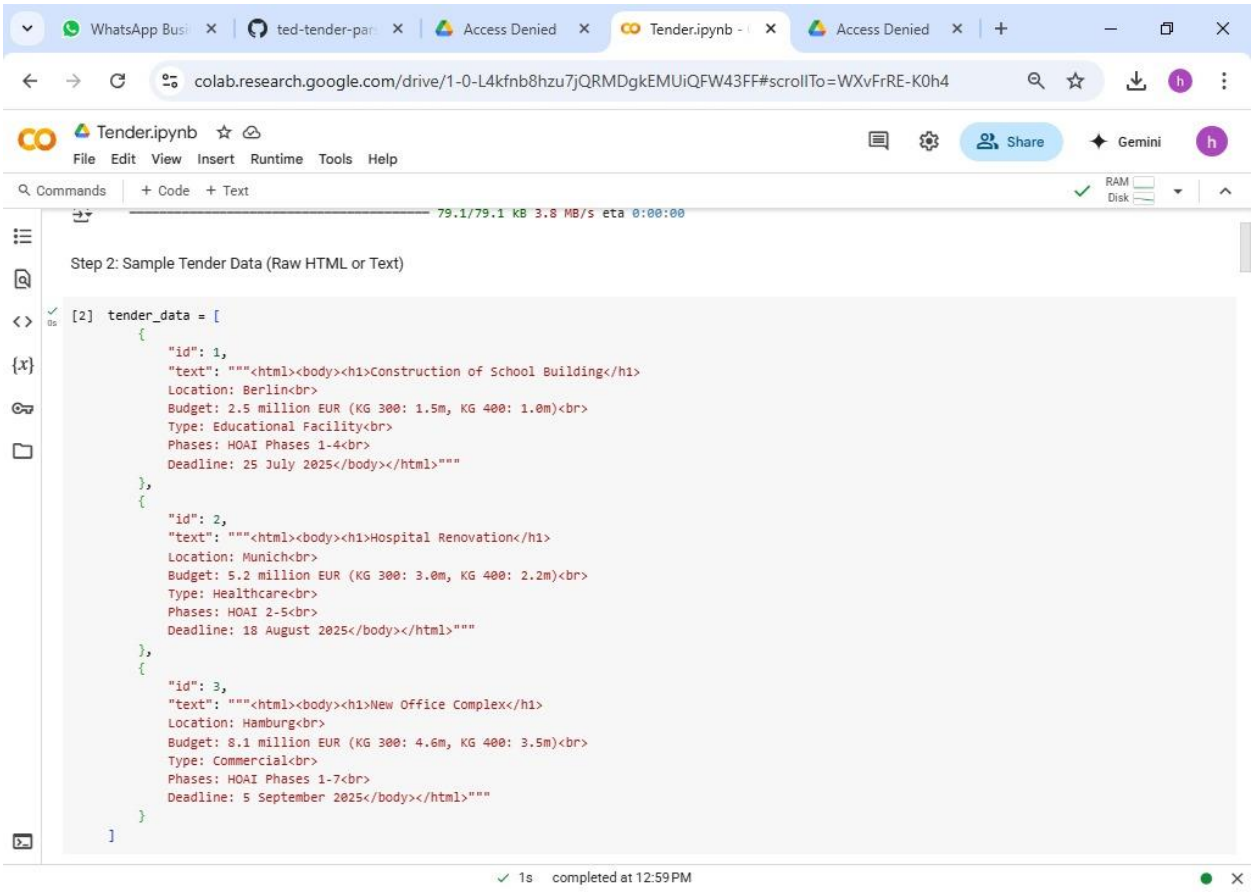


Then You will see an interface like this



Then click 'Run All' and it will start running

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Step 2: Sample Tender Data (Raw HTML or Text)
[2] tender_data = [
{
"id": 1,
"text": """<html><body><h1>Construction of School Building</h1>
Location: Berlin
Budget: 2.5 million EUR (KG 300: 1.5m, KG 400: 1.0m)
Type: Educational Facility
Phases: HOAI Phases 1-4
Deadline: 25 July 2025</body></html>"""
},
{
"id": 2,
"text": """<html><body><h1>Hospital Renovation</h1>
Location: Munich
Budget: 5.2 million EUR (KG 300: 3.0m, KG 400: 2.2m)
Type: Healthcare
Phases: HOAI 2-5
Deadline: 18 August 2025</body></html>"""
},
{
"id": 3,
"text": """<html><body><h1>New Office Complex</h1>
Location: Hamburg
Budget: 8.1 million EUR (KG 300: 4.6m, KG 400: 3.5m)
Type: Commercial
Phases: HOAI Phases 1-7
Deadline: 5 September 2025</body></html>"""
}
]
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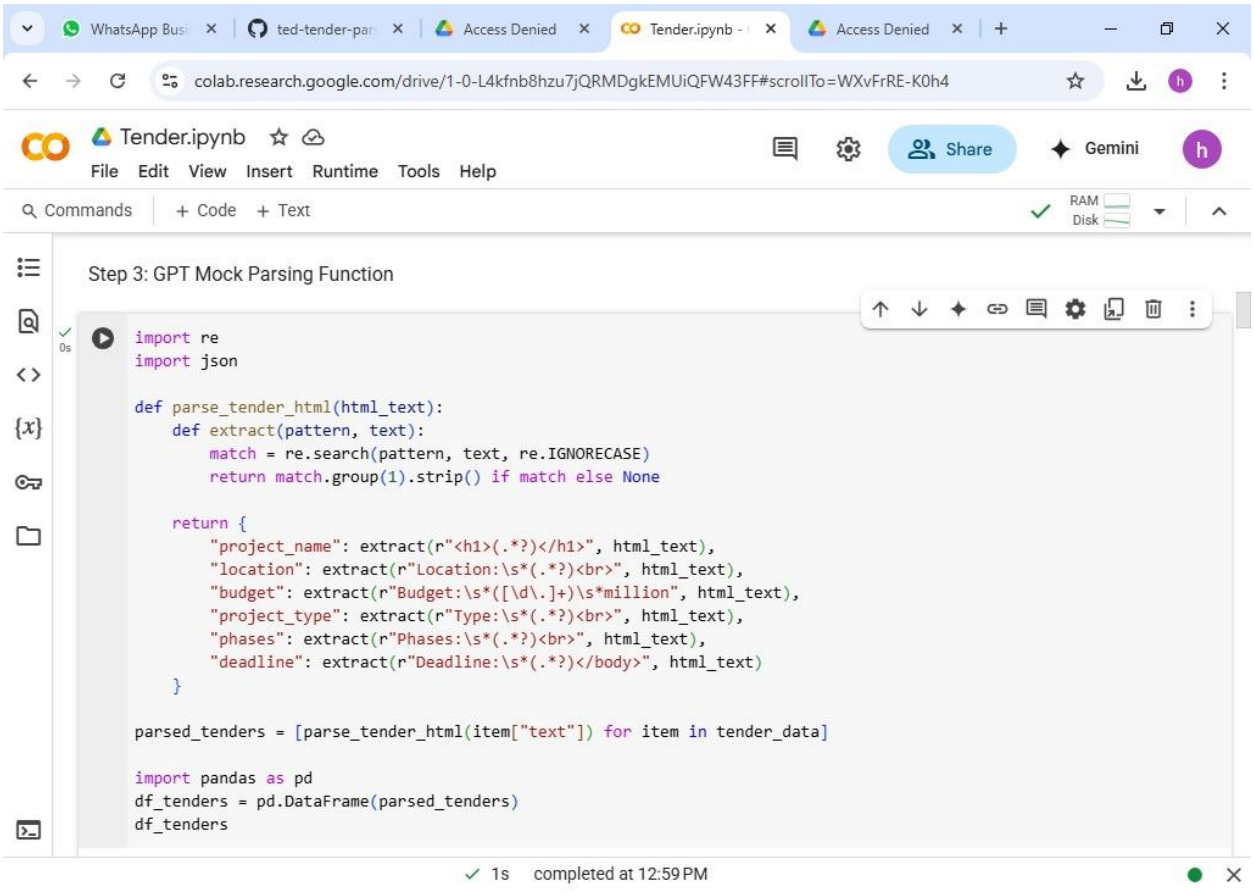
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Step 3: GPT Mock Parsing Function
0s
import re
import json
def parse_tender_html(html_text):
def extract(pattern, text):
match = re.search(pattern, text, re.IGNORECASE)
return match.group(1).strip() if match else None
return {
"project_name": extract(r"<h1>(.*?)</h1>", html_text),
"location": extract(r"Location:\s*(.*?)
", html_text),
"budget": extract(r"Budget:\s*([\d\.]+)\s*million", html_text),
"project_type": extract(r"Type:\s*(.*?)
", html_text),
"phases": extract(r"Phases:\s*(.*?)
", html_text),
"deadline": extract(r"Deadline:\s*(.*?)</body>", html_text)
}
parsed_tenders = [parse_tender_html(item["text"]) for item in tender_data]
import pandas as pd
df_tenders = pd.DataFrame(parsed_tenders)
df_tenders
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Tender.ipynb

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```
import pandas as pd
df_tenders = pd.DataFrame(parsed_tenders)
df_tenders
```

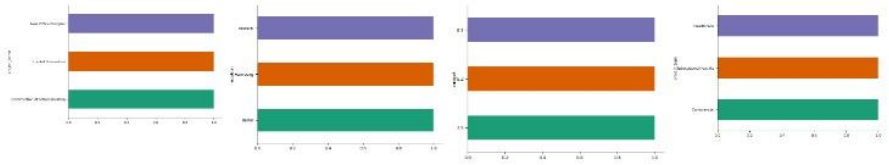
1 to 3 of 3 entries Filter

index	project_name	location	budget	project_type	phases	deadline
0	Construction of School Building	Berlin	2.5	Educational Facility	HOAI Phases 1-4	25 July 2025
1	Hospital Renovation	Munich	5.2	Healthcare	HOAI 2-5	18 August 2025
2	New Office Complex	Hamburg	8.1	Commercial	HOAI Phases 1-7	5 September 2025

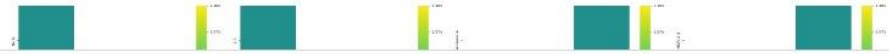
Show 25 per page

Like what you see? Visit the data table notebook to learn more about interactive tables.

Categorical distributions



2-d categorical distributions



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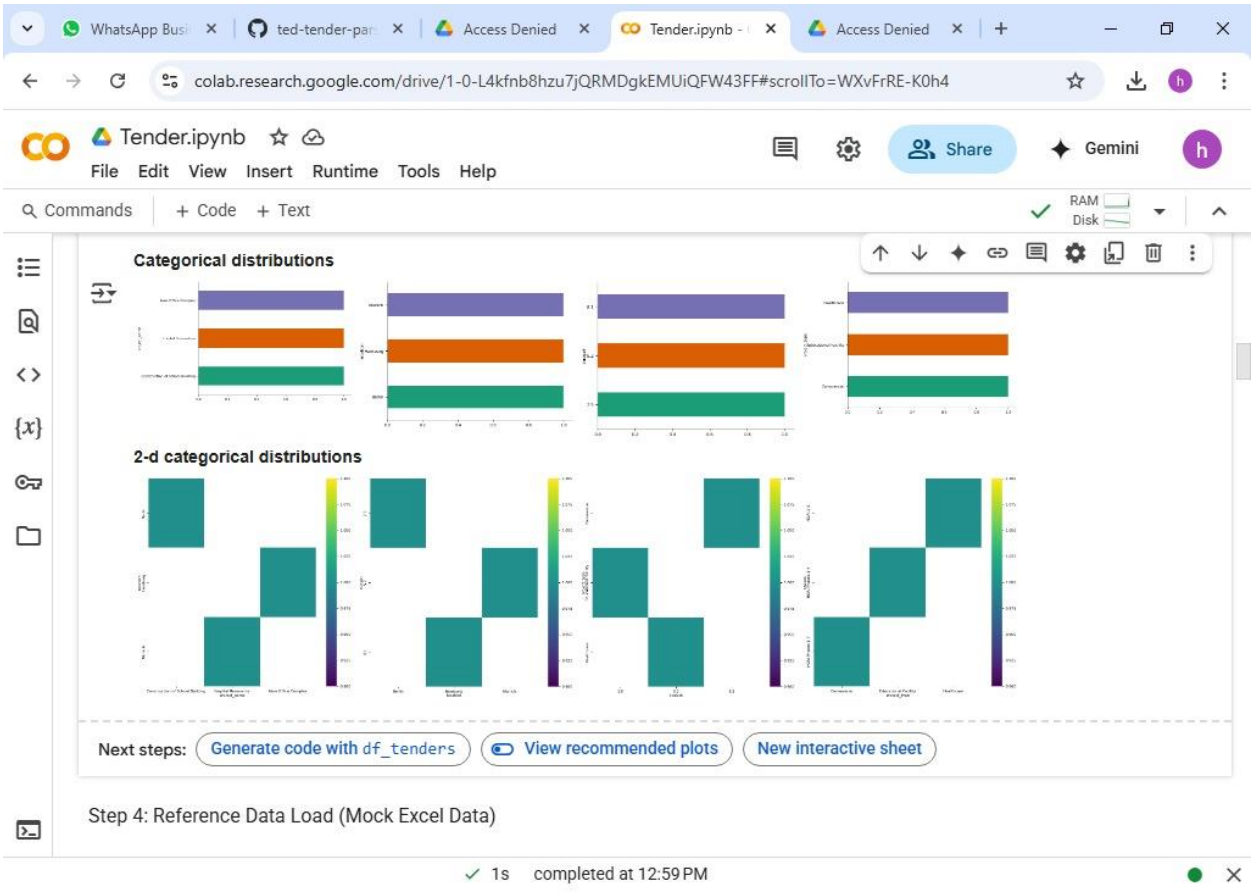
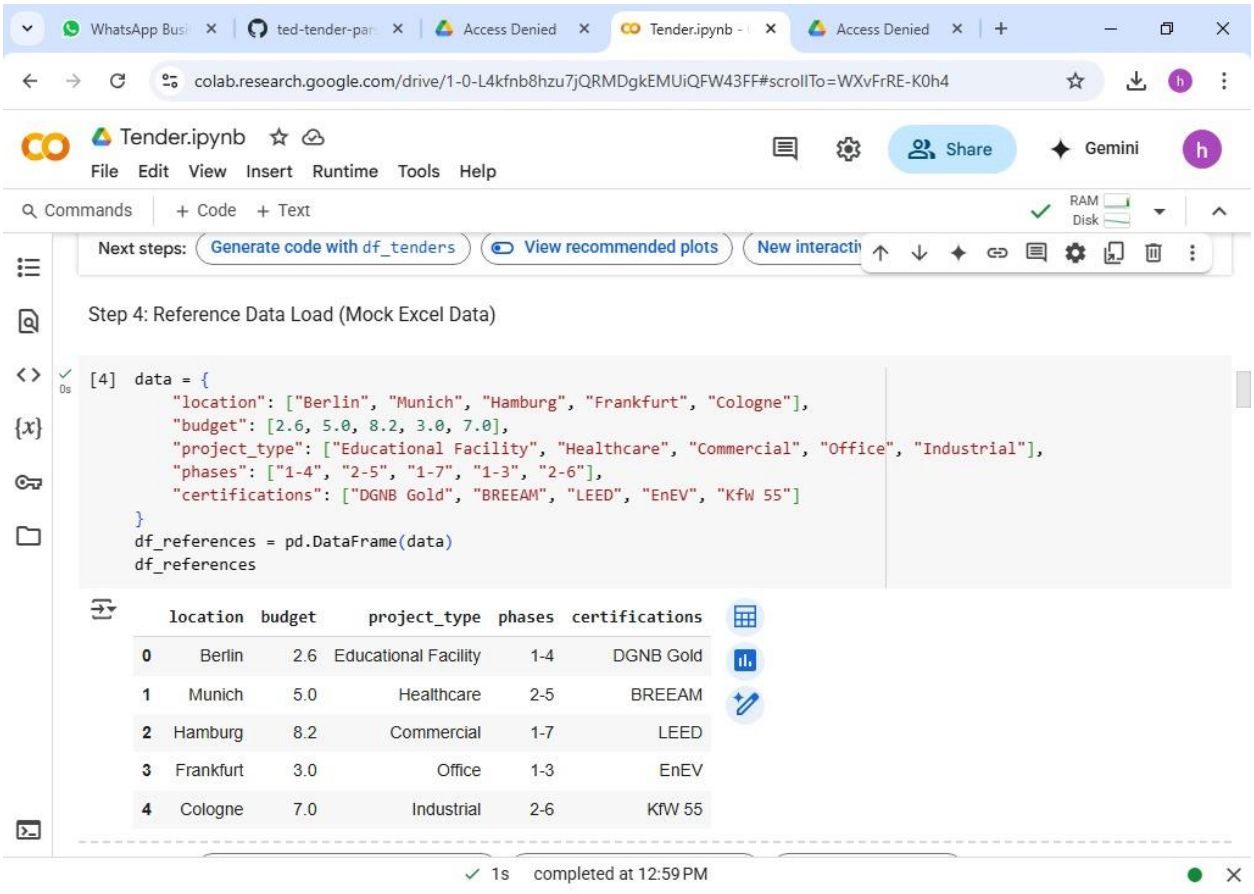


Step 4: Reference Data Load (Mock Excel Data)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Next steps:
Generate code with df_tenders
View recommended plots
New interacti
Step 4: Reference Data Load (Mock Excel Data)
[4]
0s
data = {
"location": ["Berlin", "Munich", "Hamburg", "Frankfurt", "Cologne"],
"budget": [2.6, 5.0, 8.2, 3.0, 7.0],
"project_type": ["Educational Facility", "Healthcare", "Commercial", "Office", "Industrial"],
"phases": ["1-4", "2-5", "1-7", "1-3", "2-6"],
"certifications": ["DGNB Gold", "BREEAM", "LEED", "EnEV", "KfW 55"]
}
df_references = pd.DataFrame(data)
df_references
location budget project_type phases certifications
0 Berlin 2.6 Educational Facility 1-4 DGNB Gold
1 Munich 5.0 Healthcare 2-5 BREEAM
2 Hamburg 8.2 Commercial 1-7 LEED
3 Frankfurt 3.0 Office 1-3 EnEV
4 Cologne 7.0 Industrial 2-6 KfW 55
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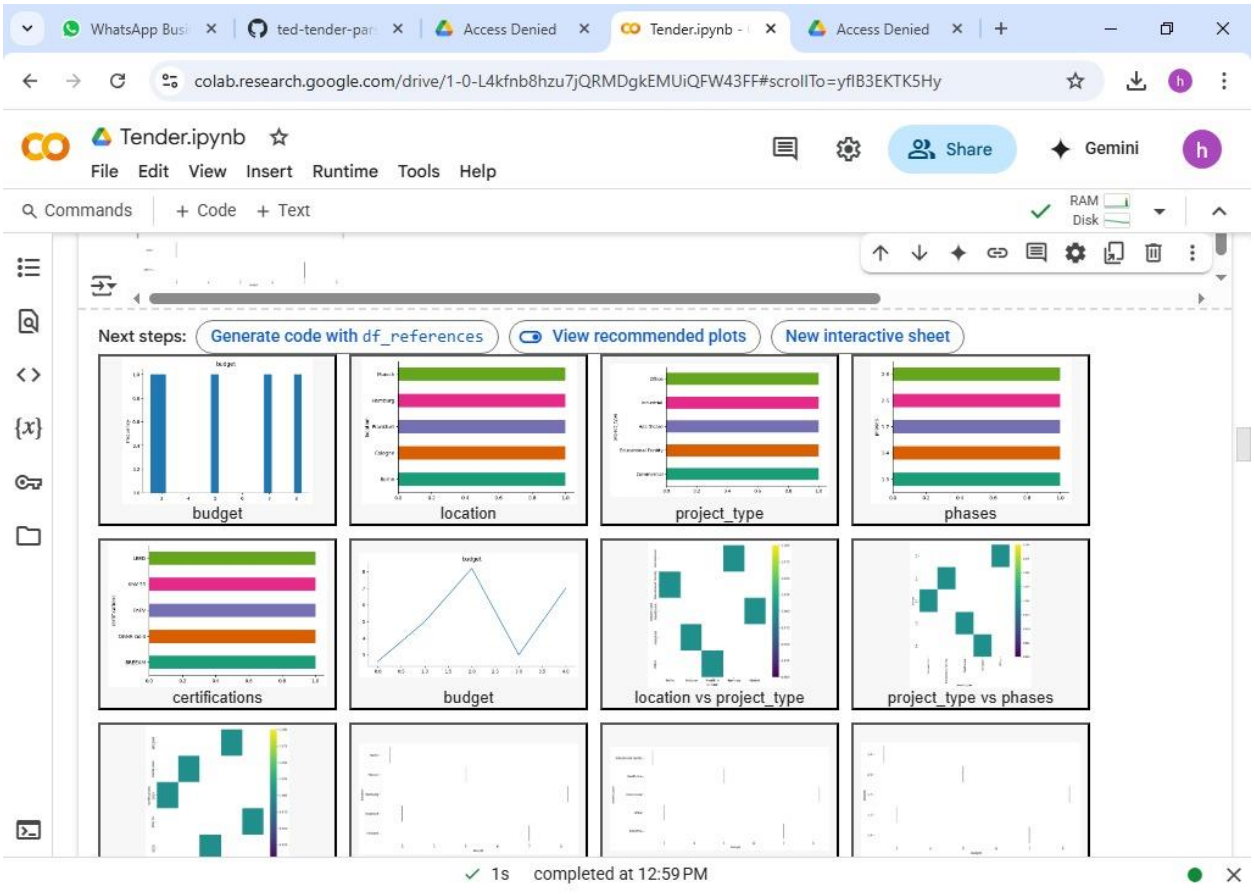
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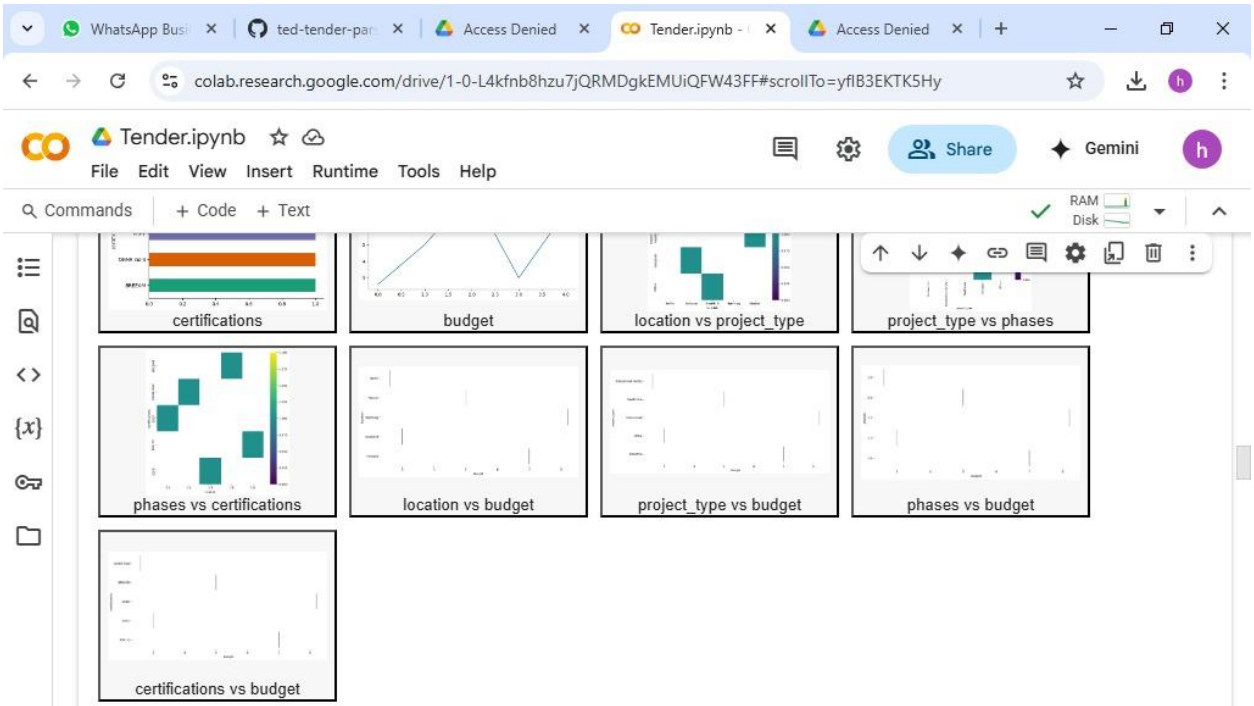

Step 5: Semantic Matching Function (Simple Rule-based)

```
[5]  from sklearn.metrics.pairwise import cosine_similarity
     from sklearn.feature_extraction.text import TfidfVectorizer
```

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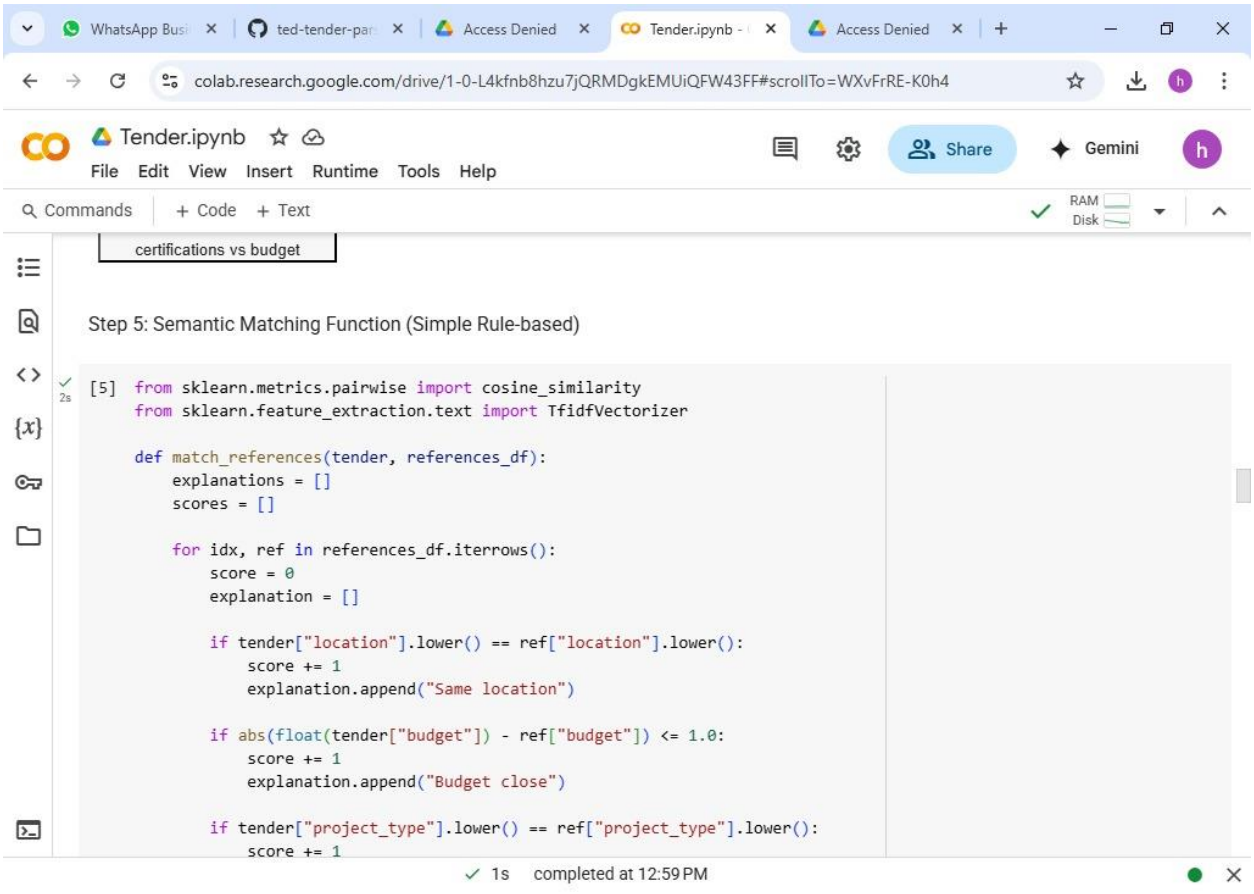
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certifications vs budget
Step 5: Semantic Matching Function (Simple Rule-based)
[5]
2s
from sklearn.metrics.pairwise import cosine_similarity
from sklearn.feature_extraction.text import TfidfVectorizer
def match_references(tender, references_df):
explanations = []
scores = []
for idx, ref in references_df.iterrows():
score = 0
explanation = []
if tender["location"].lower() == ref["location"].lower():
score += 1
explanation.append("Same location")
if abs(float(tender["budget"]) - ref["budget"]) <= 1.0:
score += 1
explanation.append("Budget close")
if tender["project_type"].lower() == ref["project_type"].lower():
score += 1
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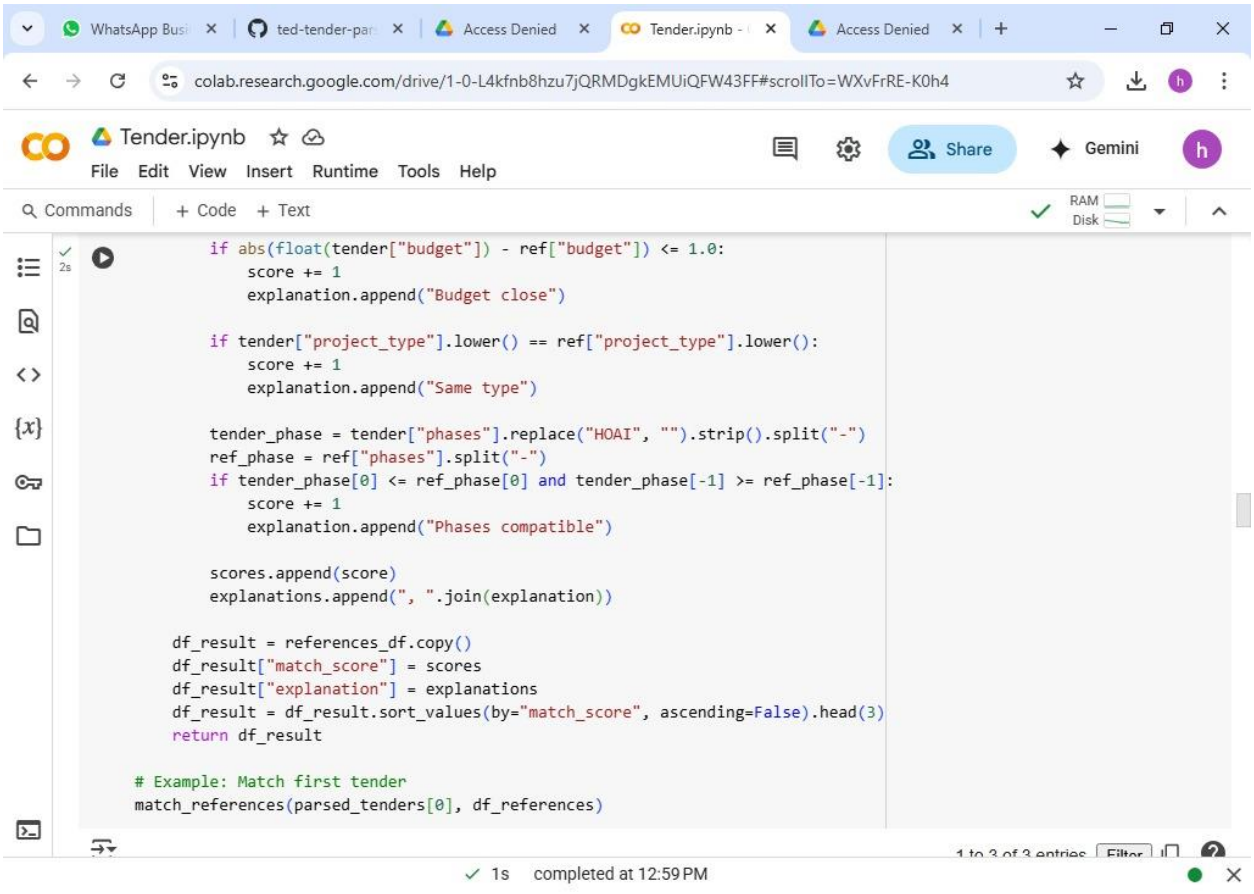
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2s
if abs(float(tender["budget"]) - ref["budget"]) <= 1.0:
score += 1
explanation.append("Budget close")
if tender["project_type"].lower() == ref["project_type"].lower():
score += 1
explanation.append("Same type")
tender_phase = tender["phases"].replace("HOAI", "").strip().split("-")
ref_phase = ref["phases"].split("-")
if tender_phase[0] <= ref_phase[0] and tender_phase[-1] >= ref_phase[-1]:
score += 1
explanation.append("Phases compatible")
scores.append(score)
explanations.append(", ".join(explanation))
df_result = references_df.copy()
df_result["match_score"] = scores
df_result["explanation"] = explanations
df_result = df_result.sort_values(by="match_score", ascending=False).head(3)
return df_result
# Example: Match first tender
match_references(parsed_tenders[0], df_references)
1 to 3 of 3 entries
Filter
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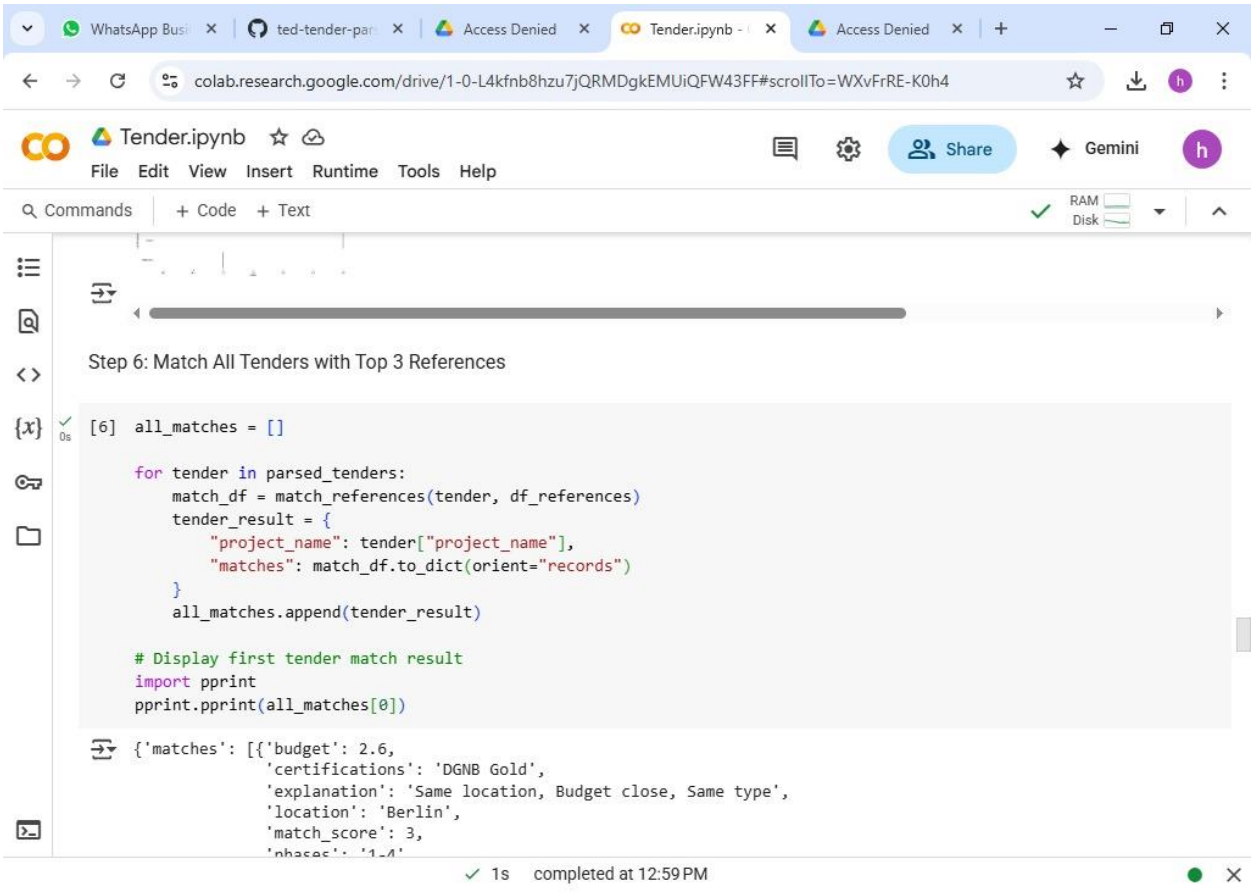
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Step 6: Match All Tenders with Top 3 References
[6]
0s
all_matches = []
for tender in parsed_tenders:
match_df = match_references(tender, df_references)
tender_result = {
"project_name": tender["project_name"],
"matches": match_df.to_dict(orient="records")
}
all_matches.append(tender_result)
# Display first tender match result
import pprint
pprint.pprint(all_matches[0])
{'matches': [{'budget': 2.6,
'certifications': 'DGNB Gold',
'explanation': 'Same location, Budget close, Same type',
'location': 'Berlin',
'match_score': 3,
'phases': '1-4'
1s
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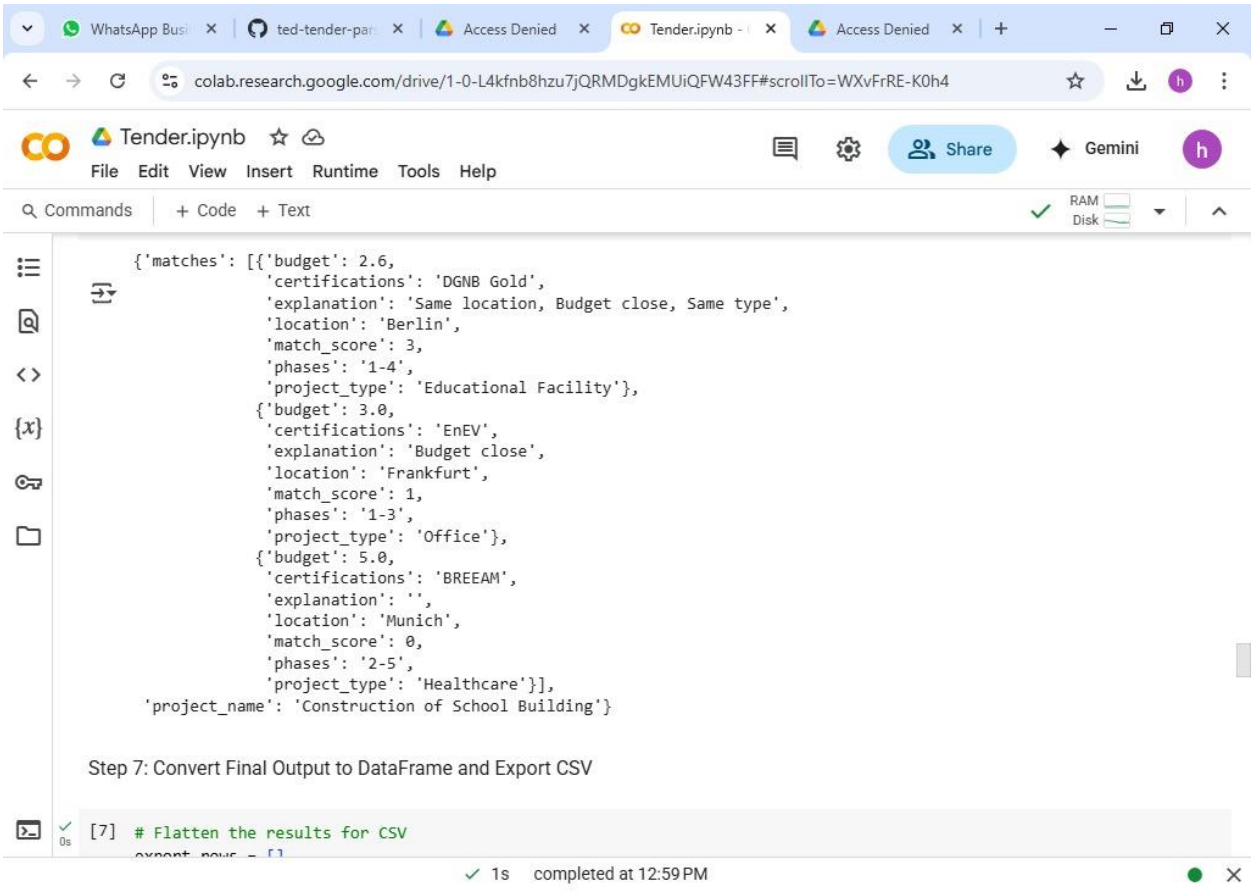
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{'matches': [{'budget': 2.6,
'certifications': 'DGNB Gold',
'explanation': 'Same location, Budget close, Same type',
'location': 'Berlin',
'match_score': 3,
'phases': '1-4',
'project_type': 'Educational Facility'},
{'budget': 3.0,
'certifications': 'EnEV',
'explanation': 'Budget close',
'location': 'Frankfurt',
'match_score': 1,
'phases': '1-3',
'project_type': 'Office'},
{'budget': 5.0,
'certifications': 'BREEAM',
'explanation': '',
'location': 'Munich',
'match_score': 0,
'phases': '2-5',
'project_type': 'Healthcare'}],
'project_name': 'Construction of School Building'}
Step 7: Convert Final Output to DataFrame and Export CSV
[7] # Flatten the results for CSV
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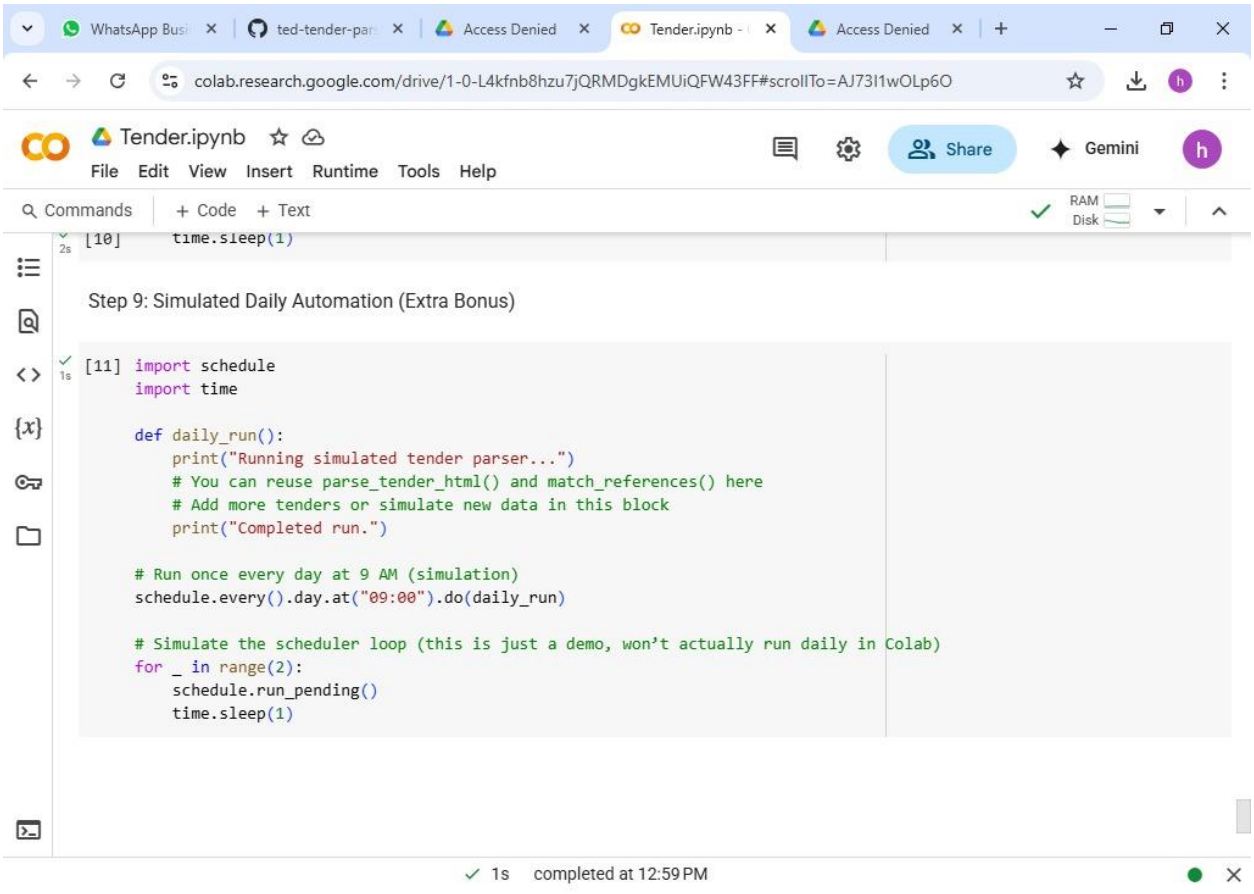
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[10] time.sleep(1)
Step 9: Simulated Daily Automation (Extra Bonus)
[11] import schedule
import time
def daily_run():
print("Running simulated tender parser...")
# You can reuse parse_tender_html() and match_references() here
# Add more tenders or simulate new data in this block
print("Completed run.")
# Run once every day at 9 AM (simulation)
schedule.every().day.at("09:00").do(daily_run)
# Simulate the scheduler loop (this is just a demo, won't actually run daily in Colab)
for _ in range(2):
schedule.run_pending()
time.sleep(1)
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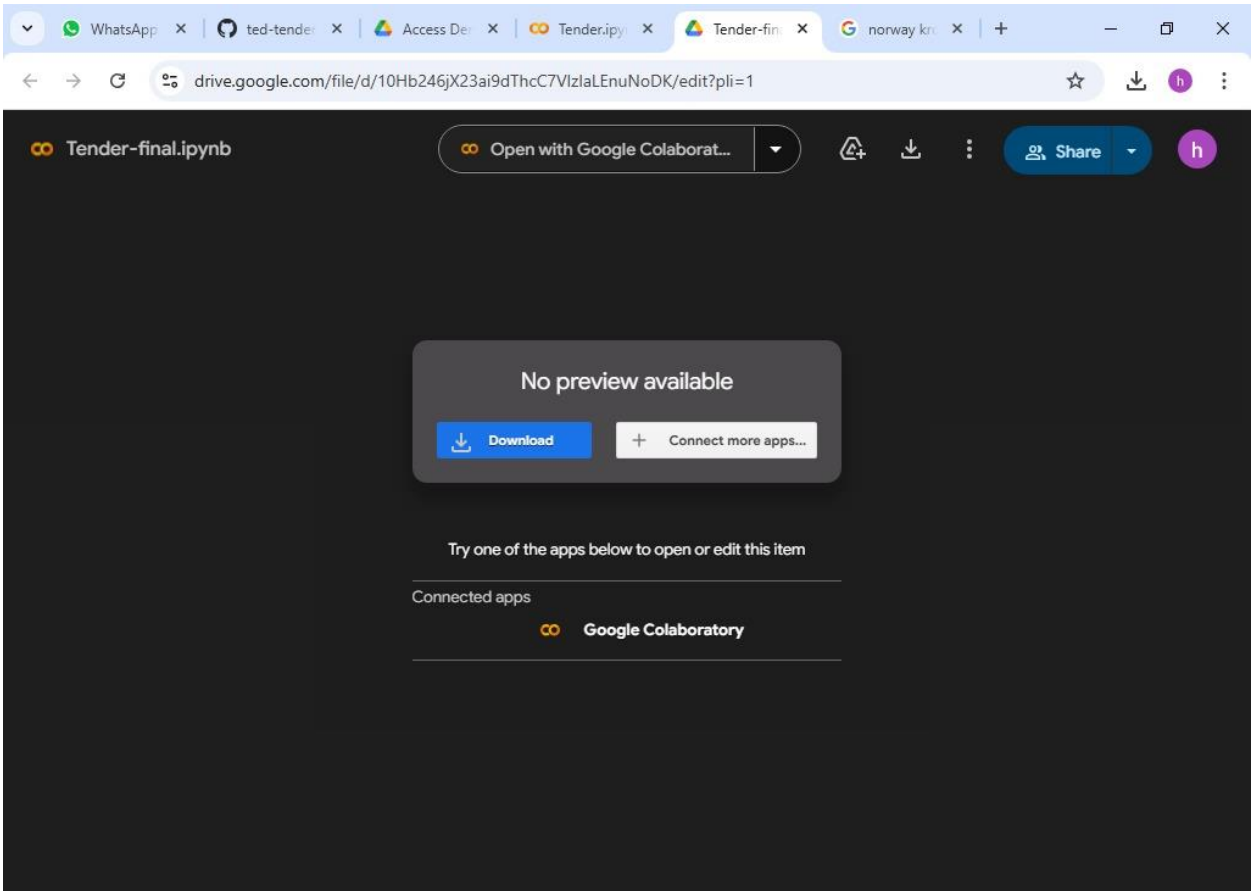

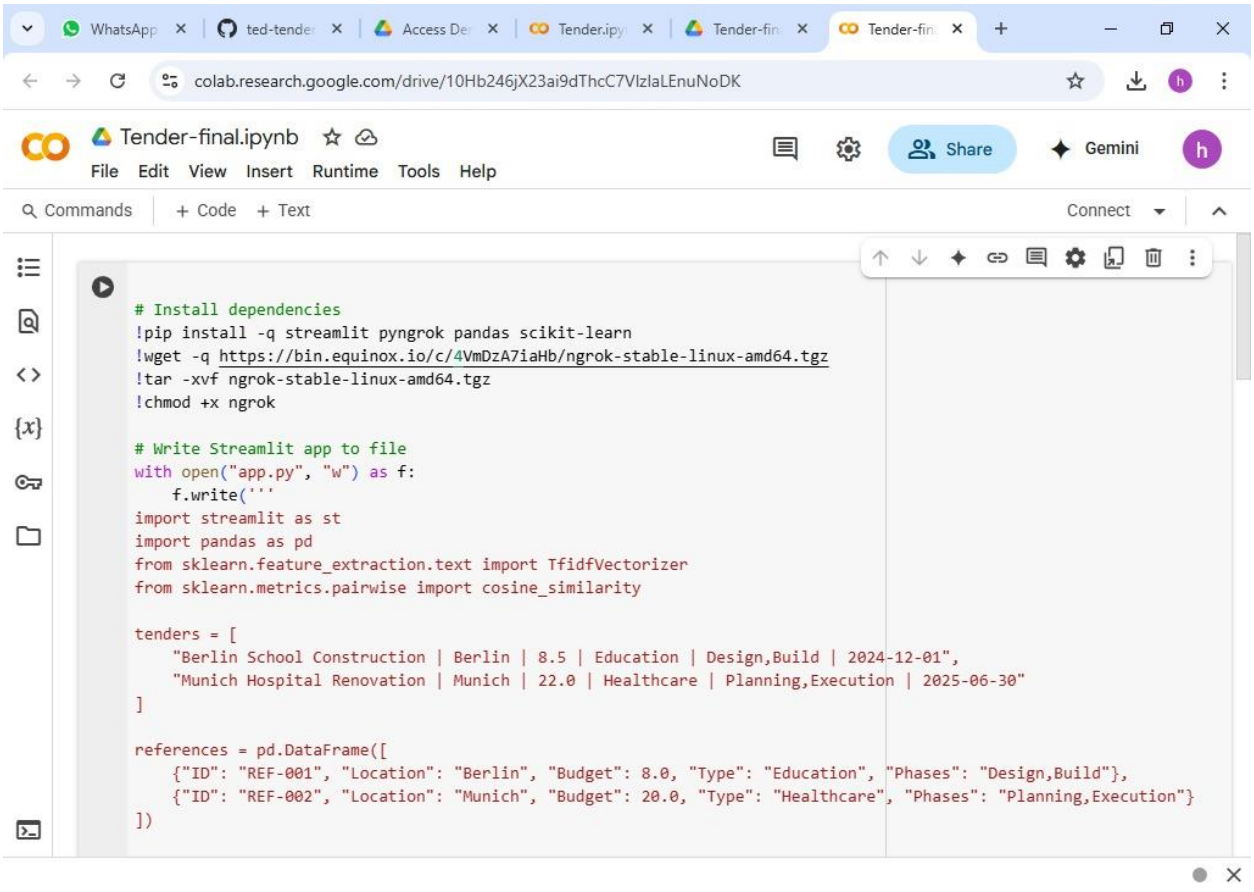
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Connect
Install dependencies
!pip install -q streamlit pyngrok pandas scikit-learn
!wget -q https://bin.equinox.io/c/4VmDzA7iaHb/ngrok-stable-linux-amd64.tgz
!tar -xvf ngrok-stable-linux-amd64.tgz
!chmod +x ngrok
Write Streamlit app to file
with open("app.py", "w") as f:
f.write('''
import streamlit as st
import pandas as pd
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.pairwise import cosine_similarity
tenders = [
"Berlin School Construction | Berlin | 8.5 | Education | Design,Build | 2024-12-01",
"Munich Hospital Renovation | Munich | 22.0 | Healthcare | Planning,Execution | 2025-06-30"
]
references = pd.DataFrame([
{"ID": "REF-001", "Location": "Berlin", "Budget": 8.0, "Type": "Education", "Phases": "Design,Build"},
{"ID": "REF-002", "Location": "Munich", "Budget": 20.0, "Type": "Healthcare", "Phases": "Planning,Execution"}
])

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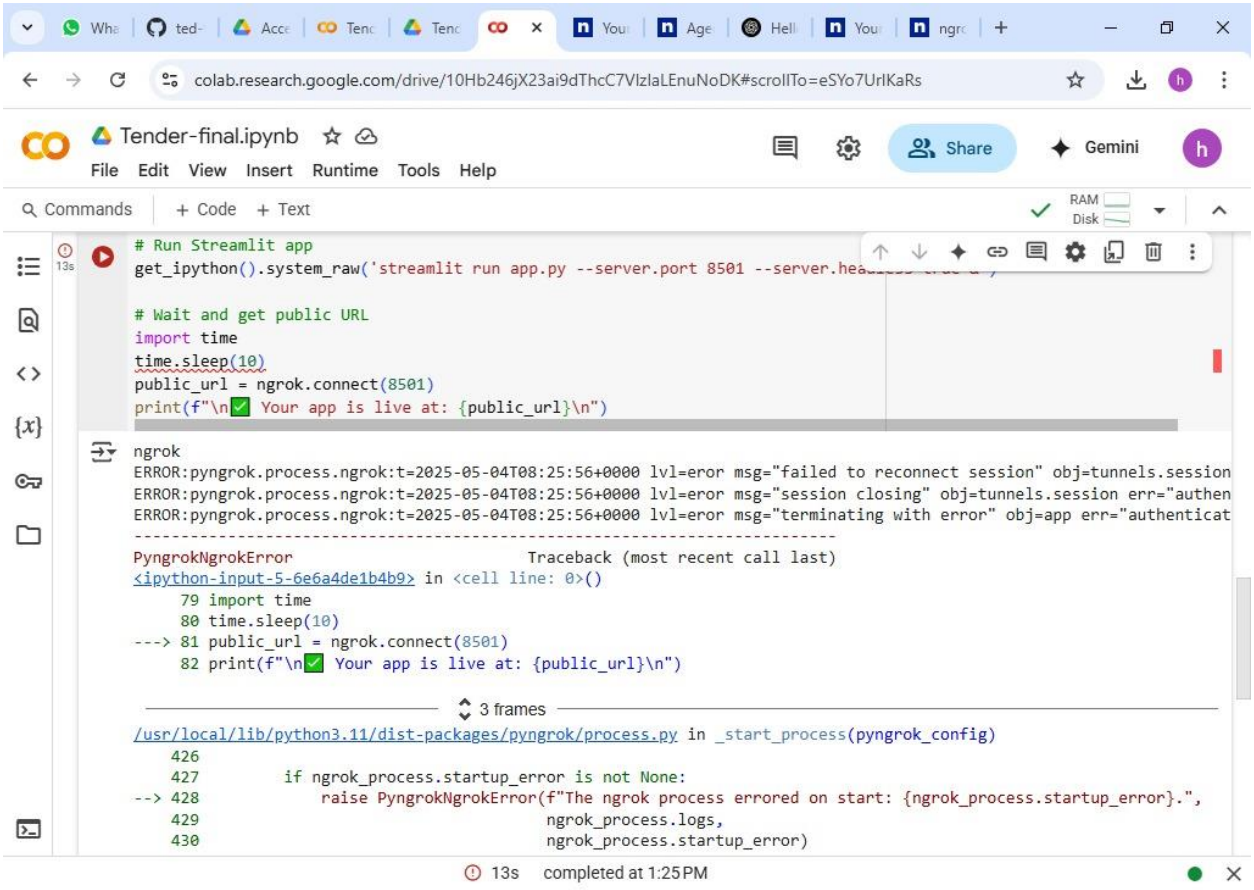

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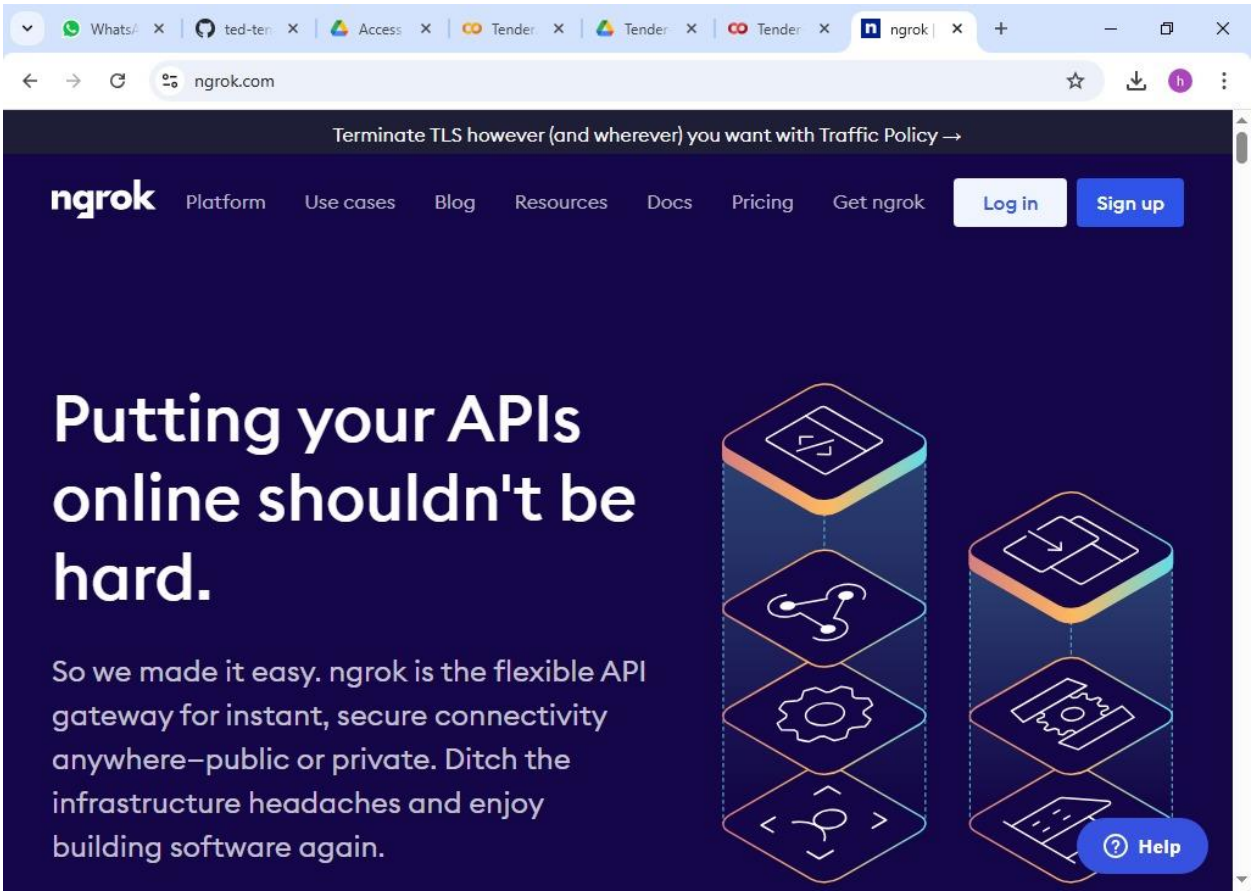

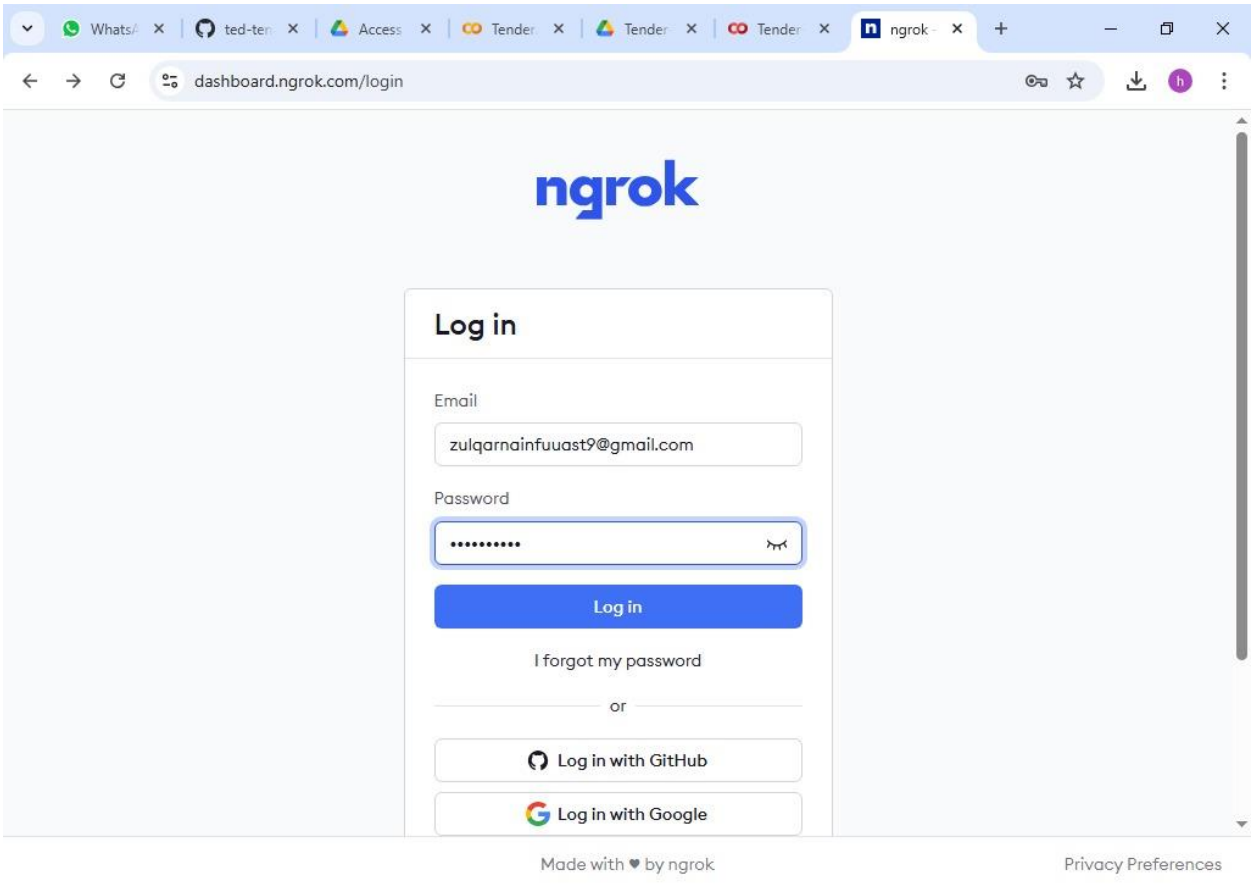
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zulqarnainfuuast9@gmail.com
Password
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or
Log in with GitHub
Log in with Google
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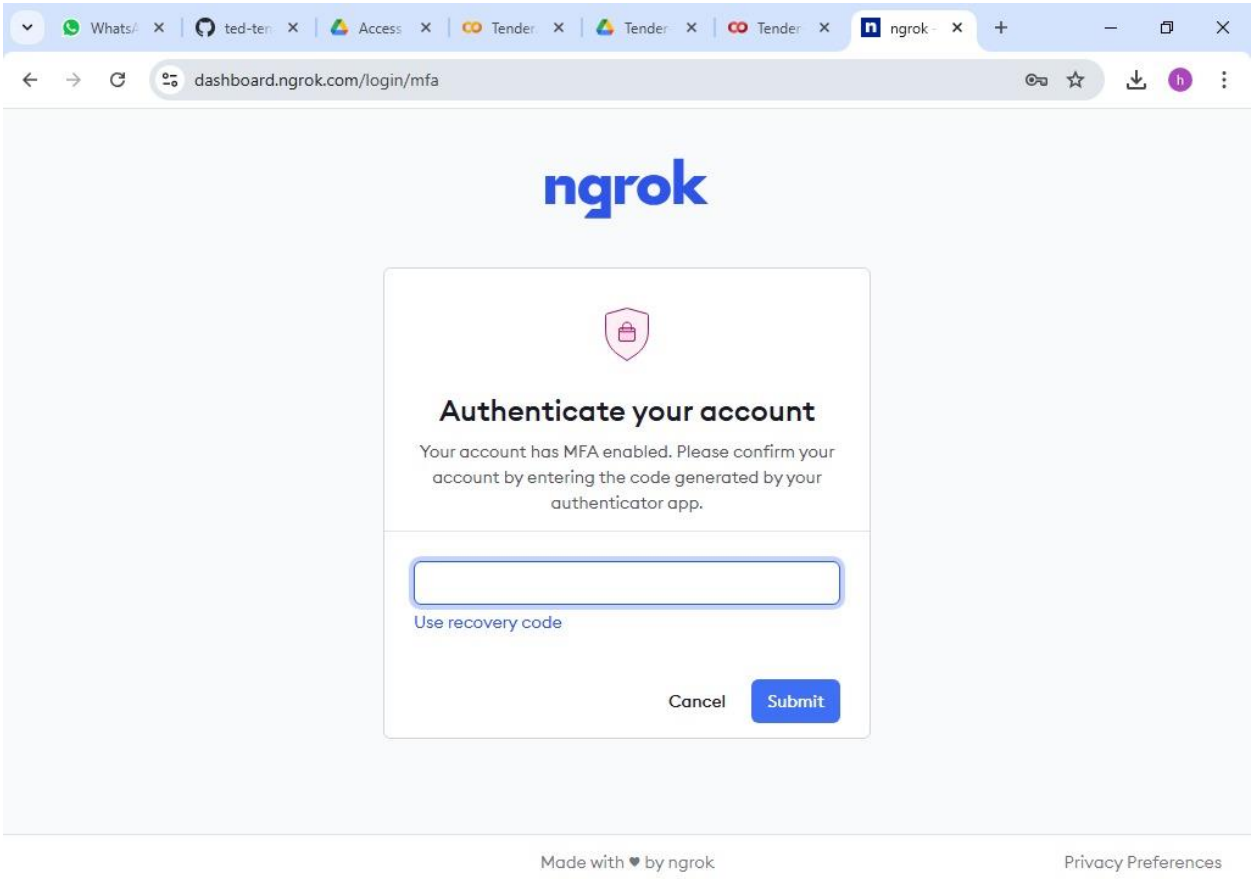
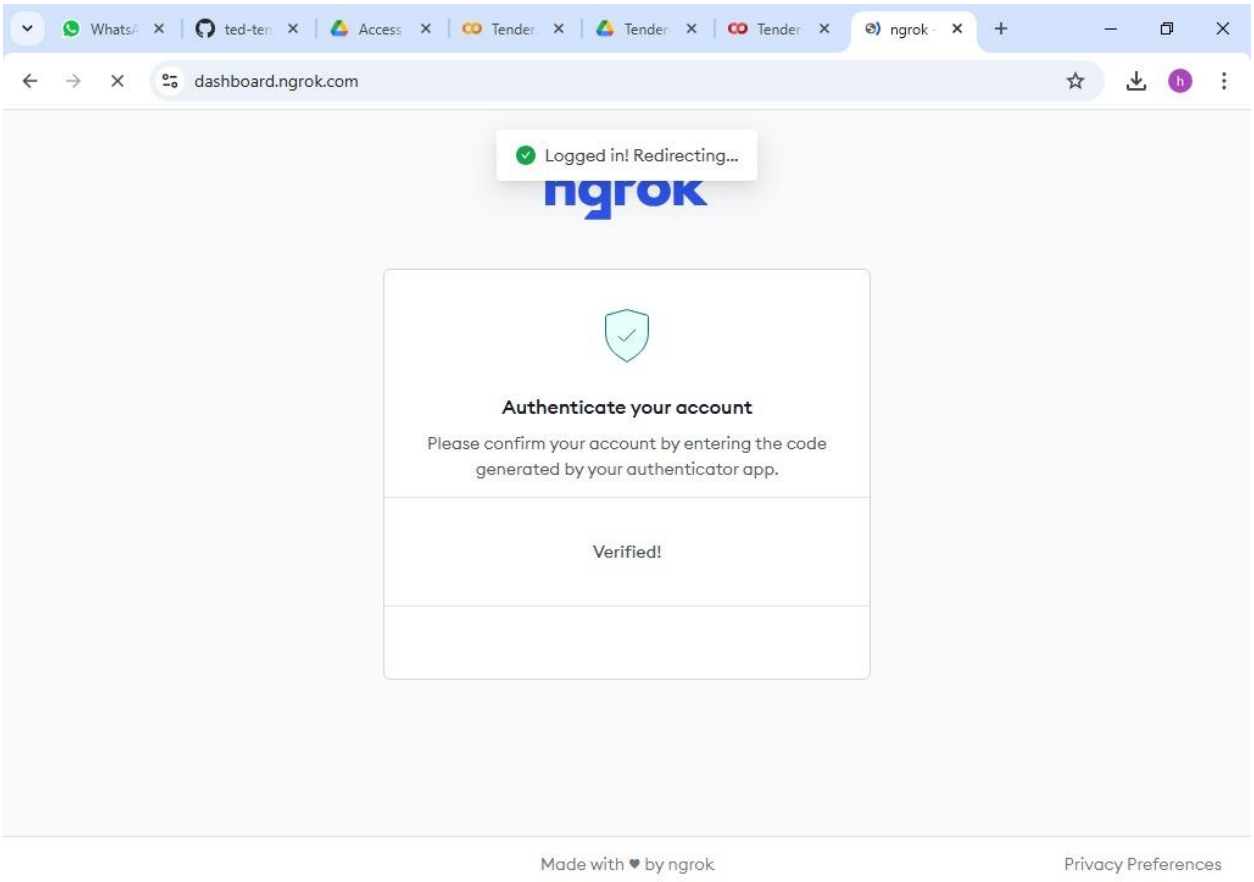
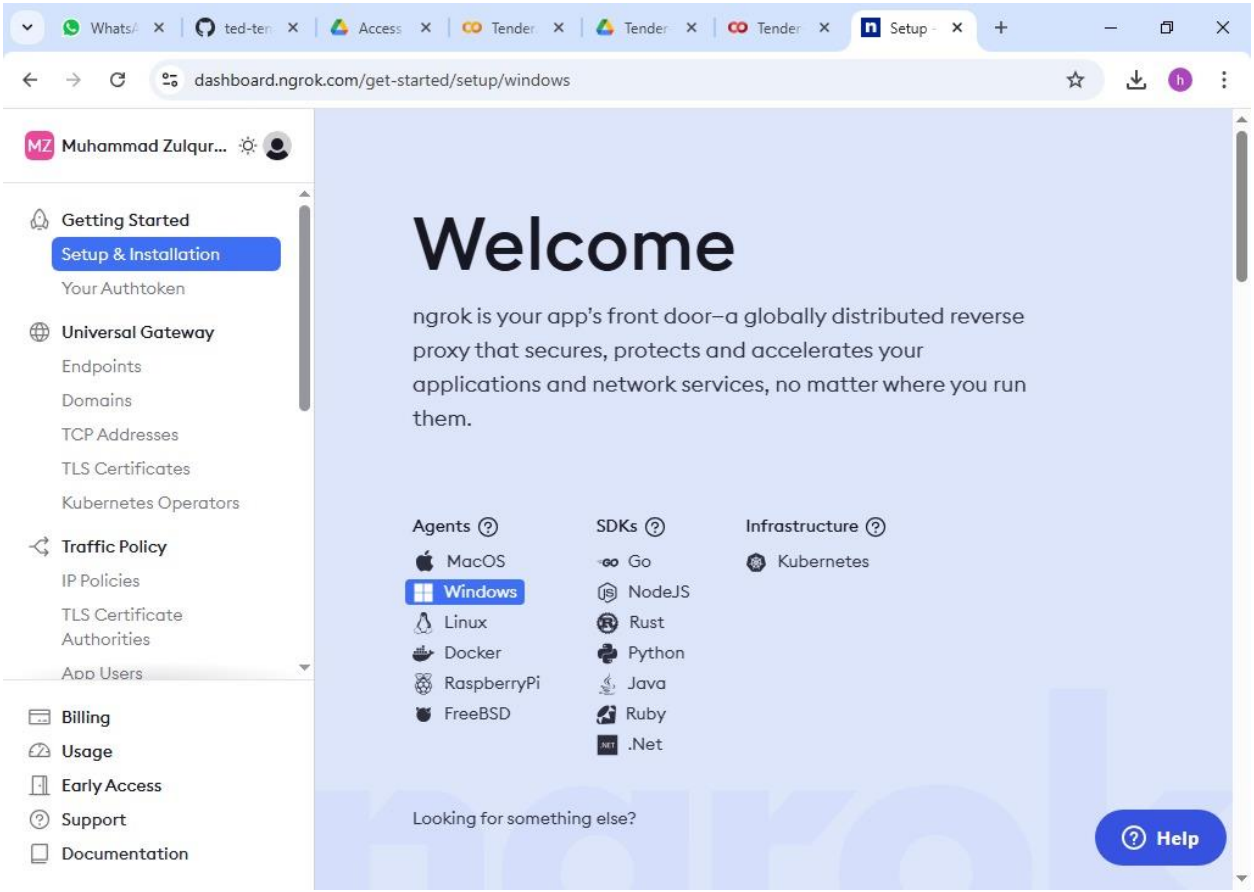
Download the Authenticator app from the Play Store and verify your account email

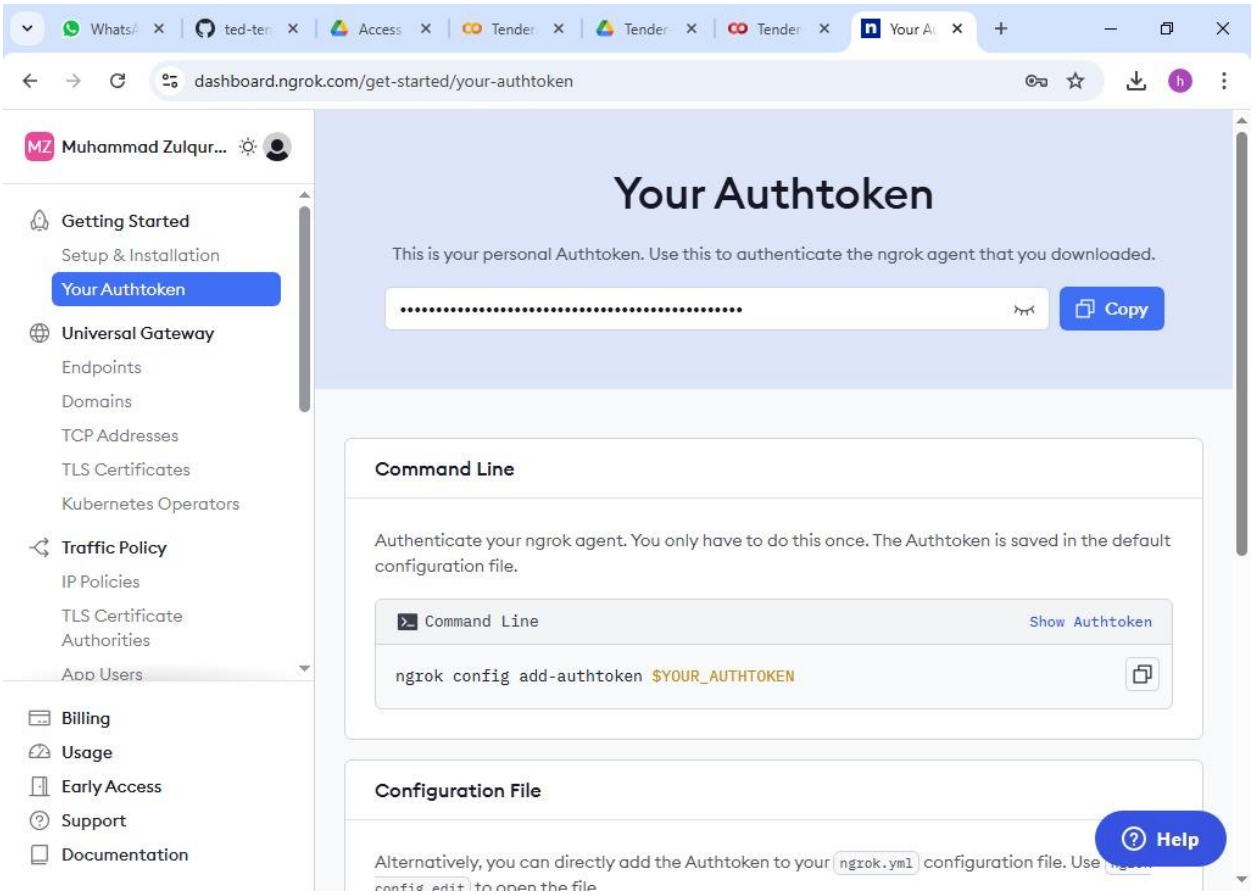


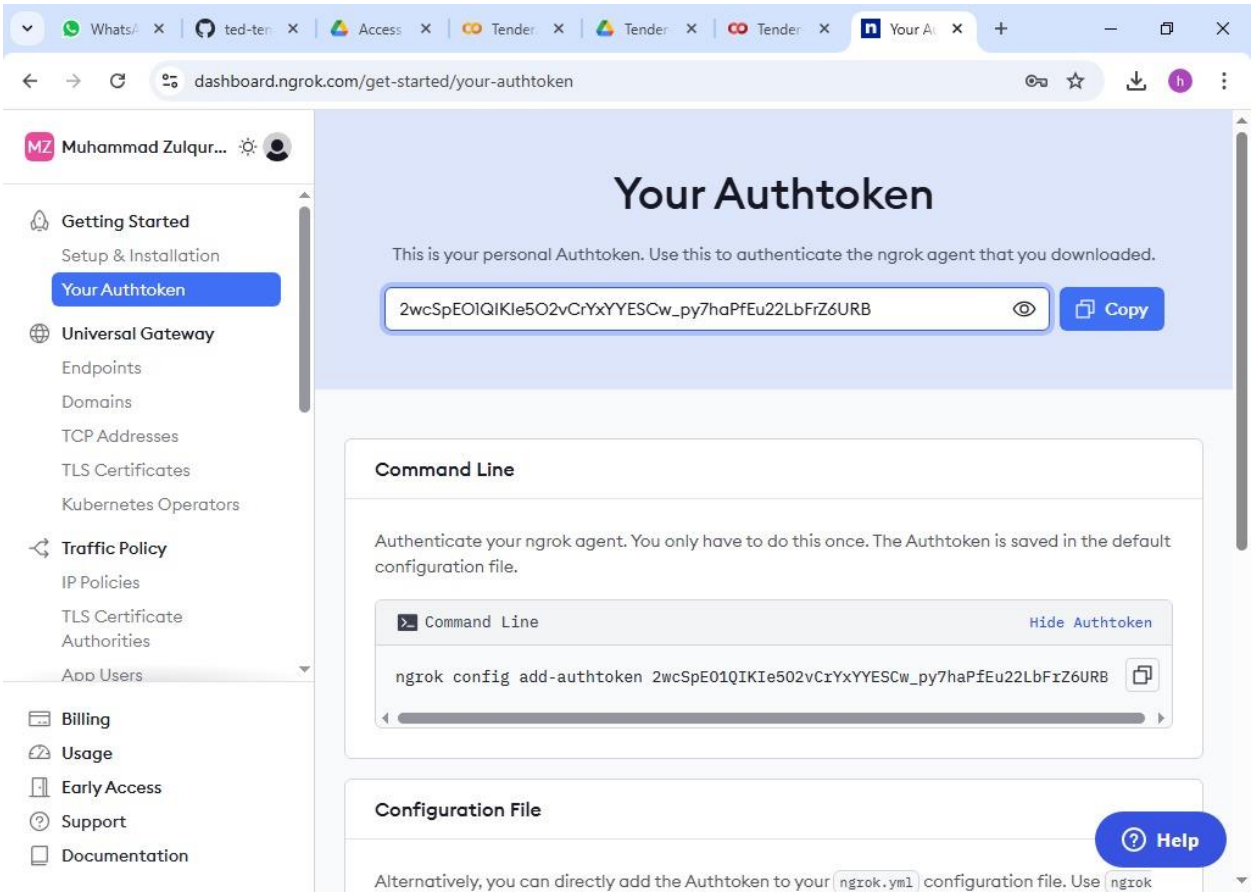

dashboard.ngrok.com
Logged in! Redirecting...
ngrok
Authenticate your account
Please confirm your account by entering the code generated by your authenticator app.
Verified!
Made with ♥ by ngrok
Privacy Preferences

After verify you see this interface and click “Your Authtoken”

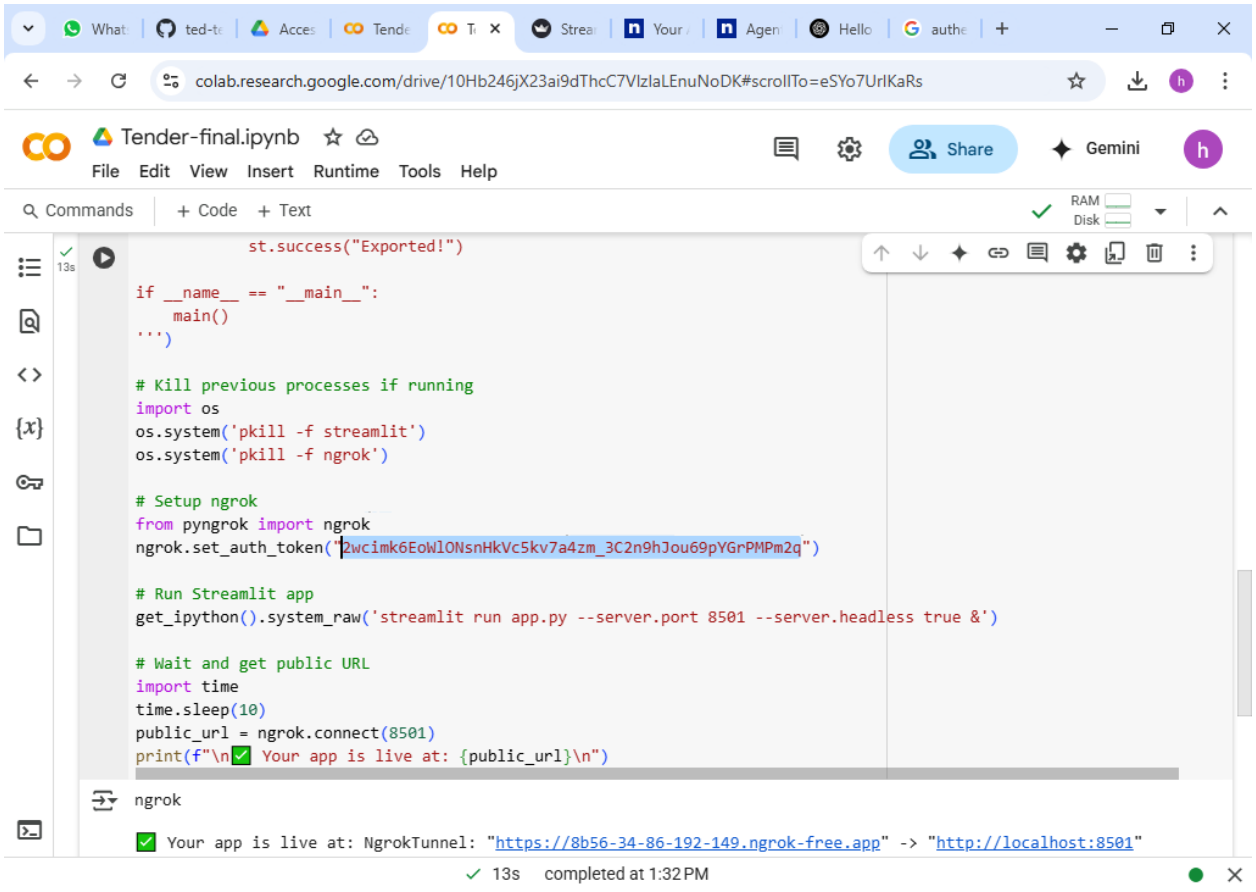


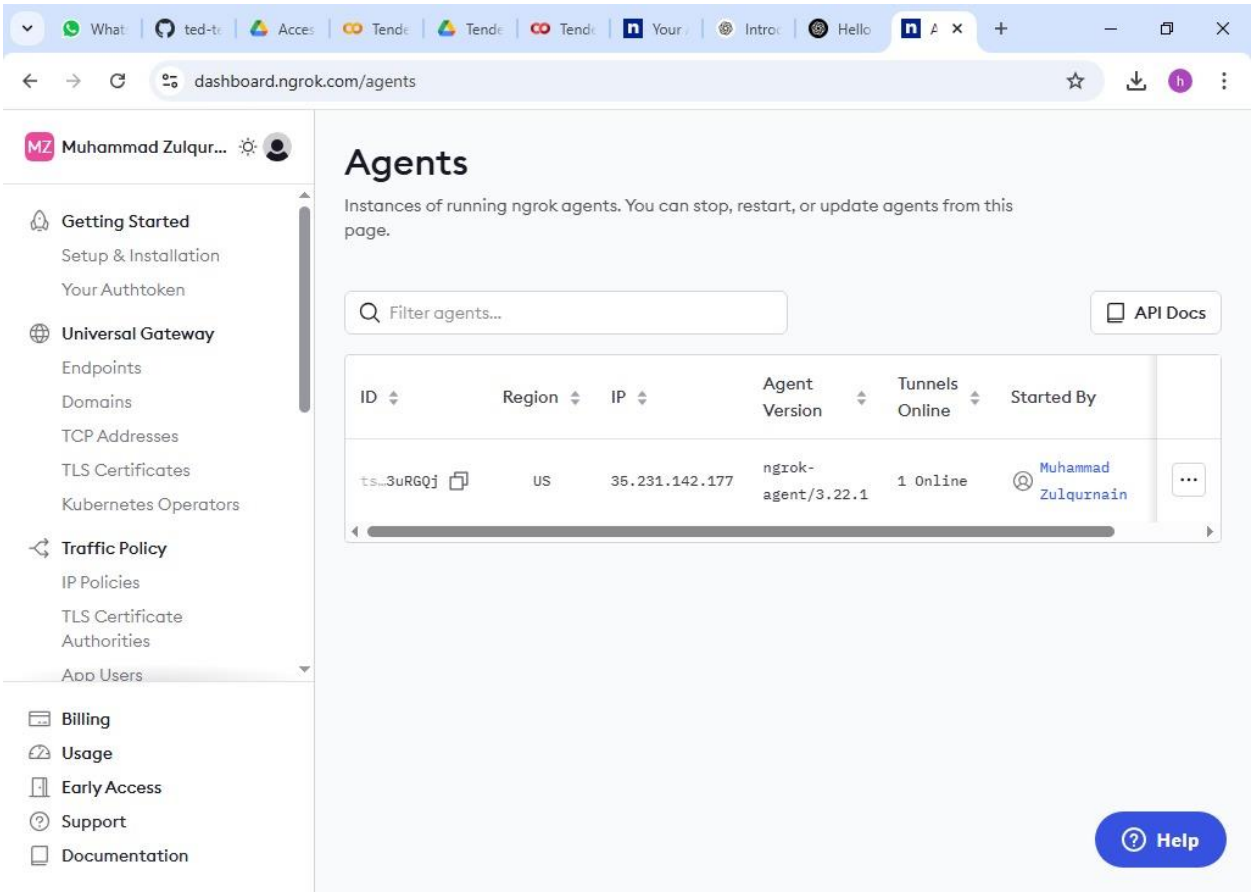
Copy this token and replace it with my token



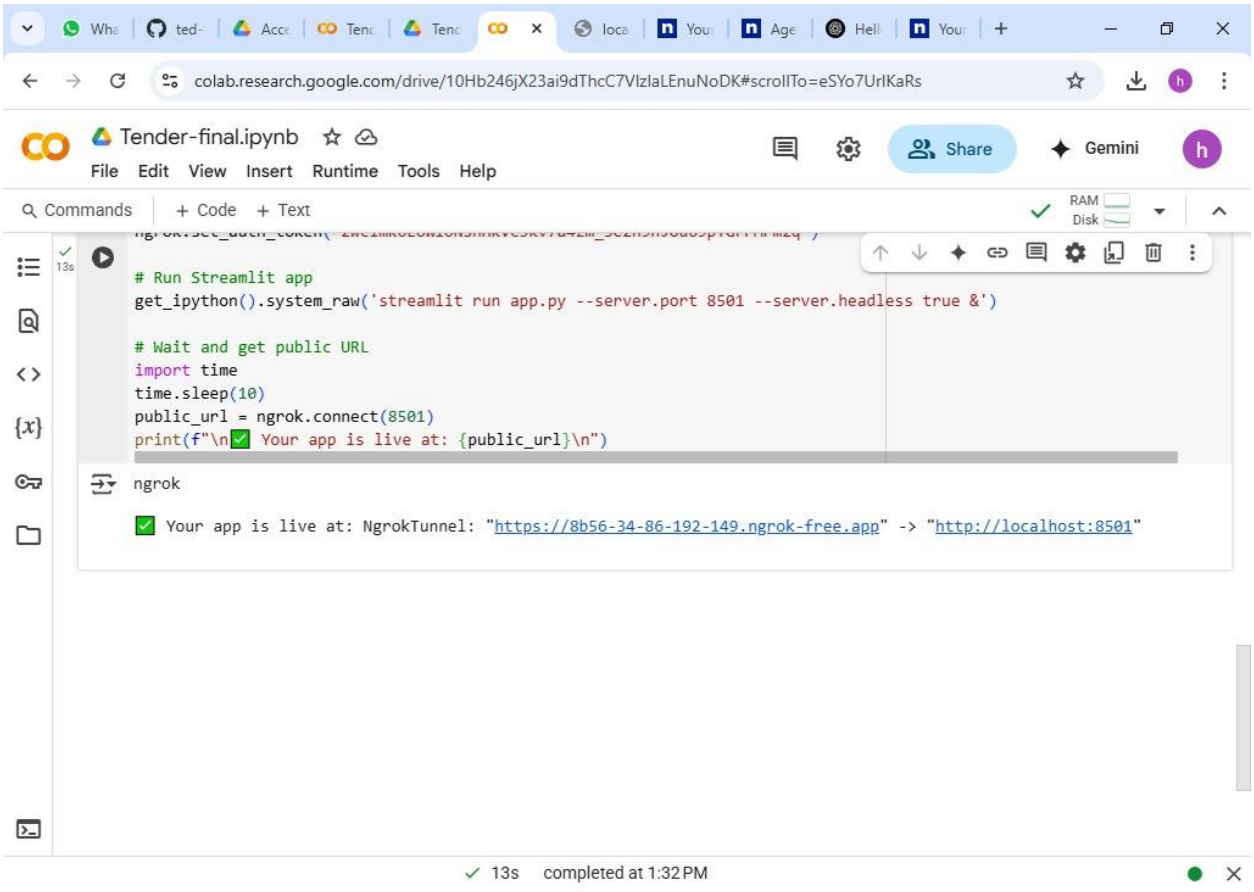

dashboard.ngrok.com/get-started/your-authtoken
Muhammad Zulqur...
Getting Started
Setup & Installation
Your Authtoken
Universal Gateway
Endpoints
Domains
TCP Addresses
TLS Certificates
Kubernetes Operators
Traffic Policy
IP Policies
TLS Certificate Authorities
App Users
Billing
Usage
Early Access
Support
Documentation
Your Authtoken
This is your personal Authtoken. Use this to authenticate the ngrok agent that you downloaded.
2wcSpEO1QIKIe5O2vCrYxYYESCw_py7haPfEu22LbFrZ6URB
Copy
Command Line
Authenticate your ngrok agent. You only have to do this once. The Authtoken is saved in the default configuration file.
Command Line
Hide Authtoken
ngrok config add-authtoken 2wcSpEO1QIKIe5O2vCrYxYYESCw_py7haPfEu22LbFrZ6URB
Configuration File
Help
Alternatively, you can directly add the Authtoken to your ngrok.yml configuration file. Use ngrok

Paste it here

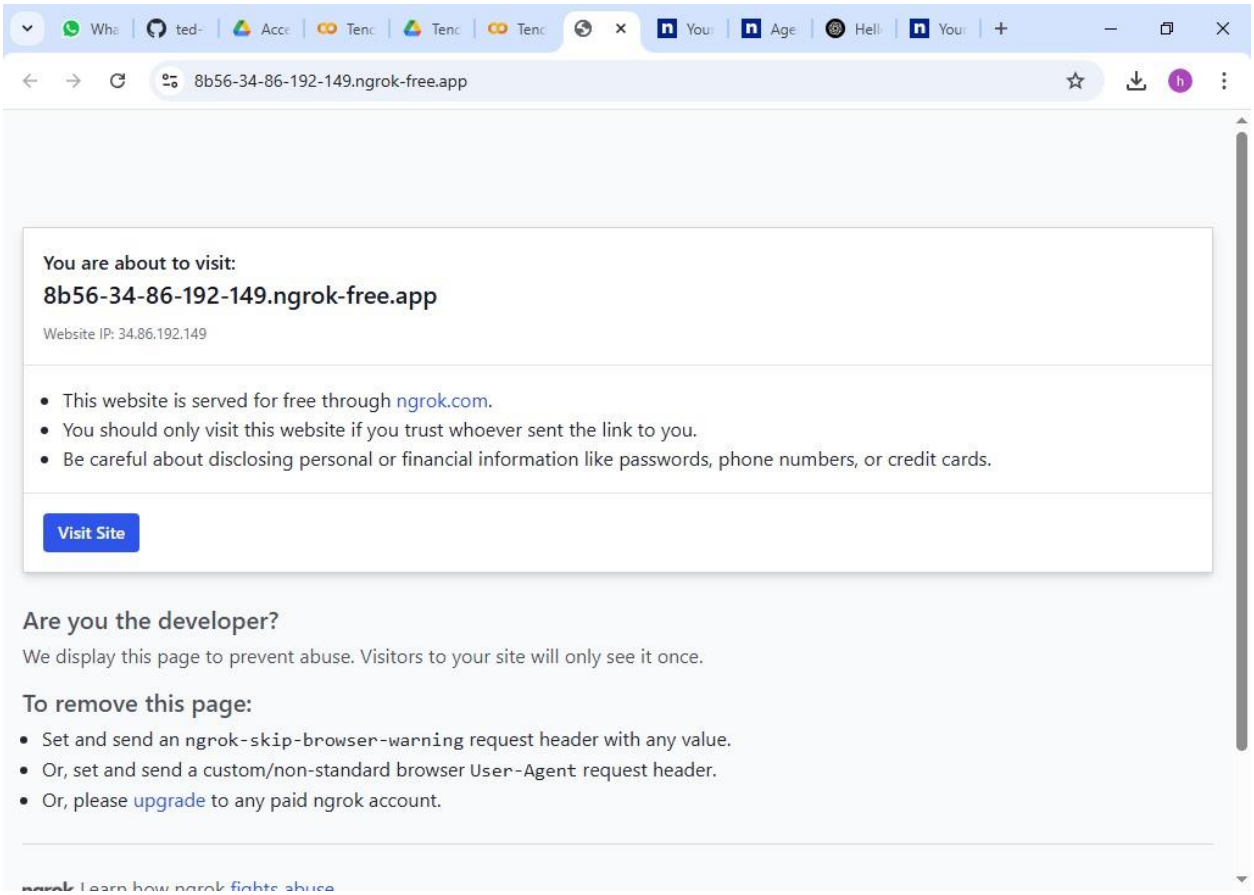



dashboard.ngrok.com/agents
Muhammad Zulqur...
Getting Started
Setup & Installation
Your Authtoken
Universal Gateway
Endpoints
Domains
TCP Addresses
TLS Certificates
Kubernetes Operators
Traffic Policy
IP Policies
TLS Certificate Authorities
App Users
Billing
Usage
Early Access
Support
Documentation
Agents
Instances of running ngrok agents. You can stop, restart, or update agents from this page.
Filter agents...
API Docs
ID
Region
IP
Agent Version
Tunnels Online
Started By
ts…3uRGQj
US
35.231.142.177
ngrok-agent/3.22.1
1 Online
Muhammad Zulqurnain
Help

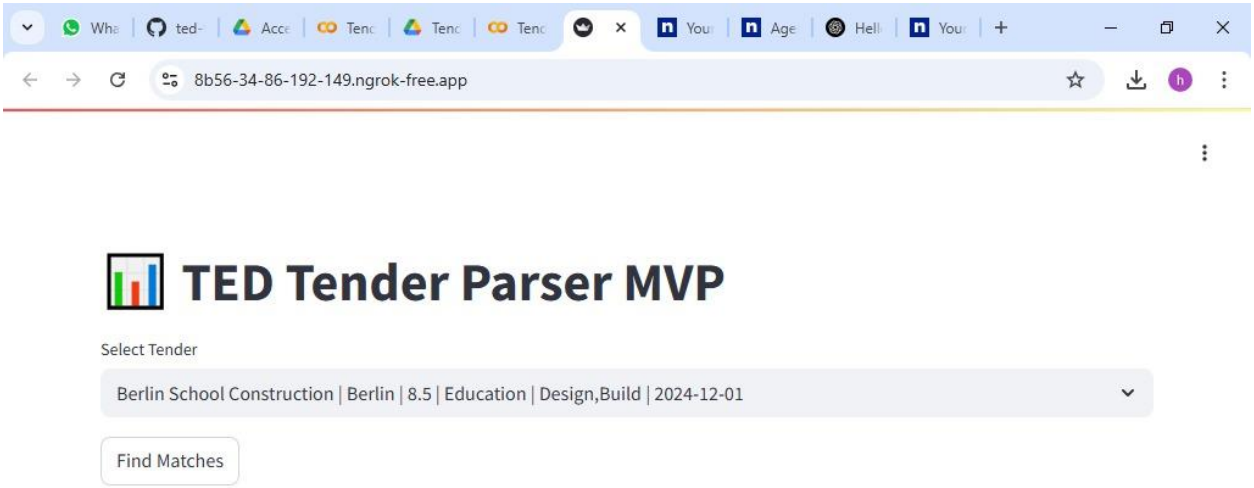
If this link is shown, it means the project is running

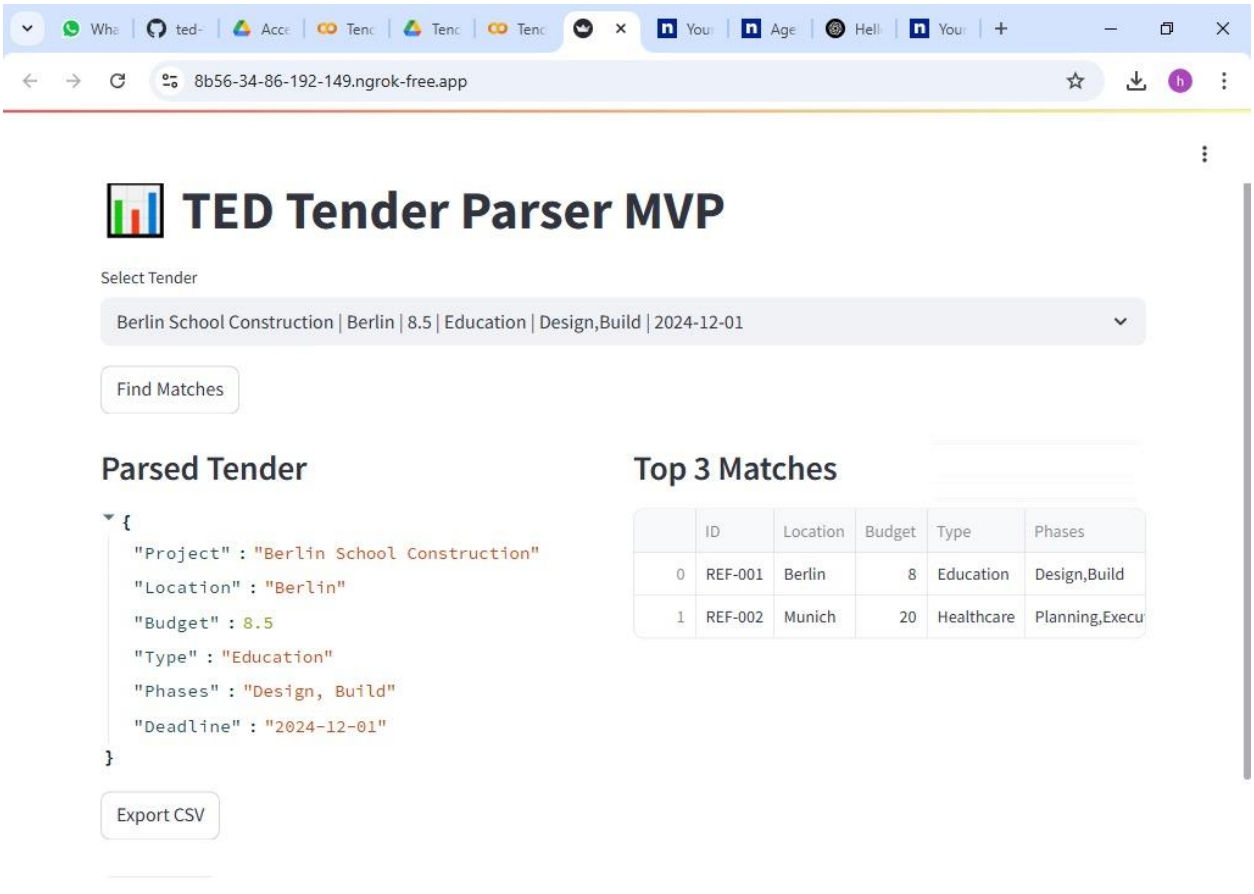


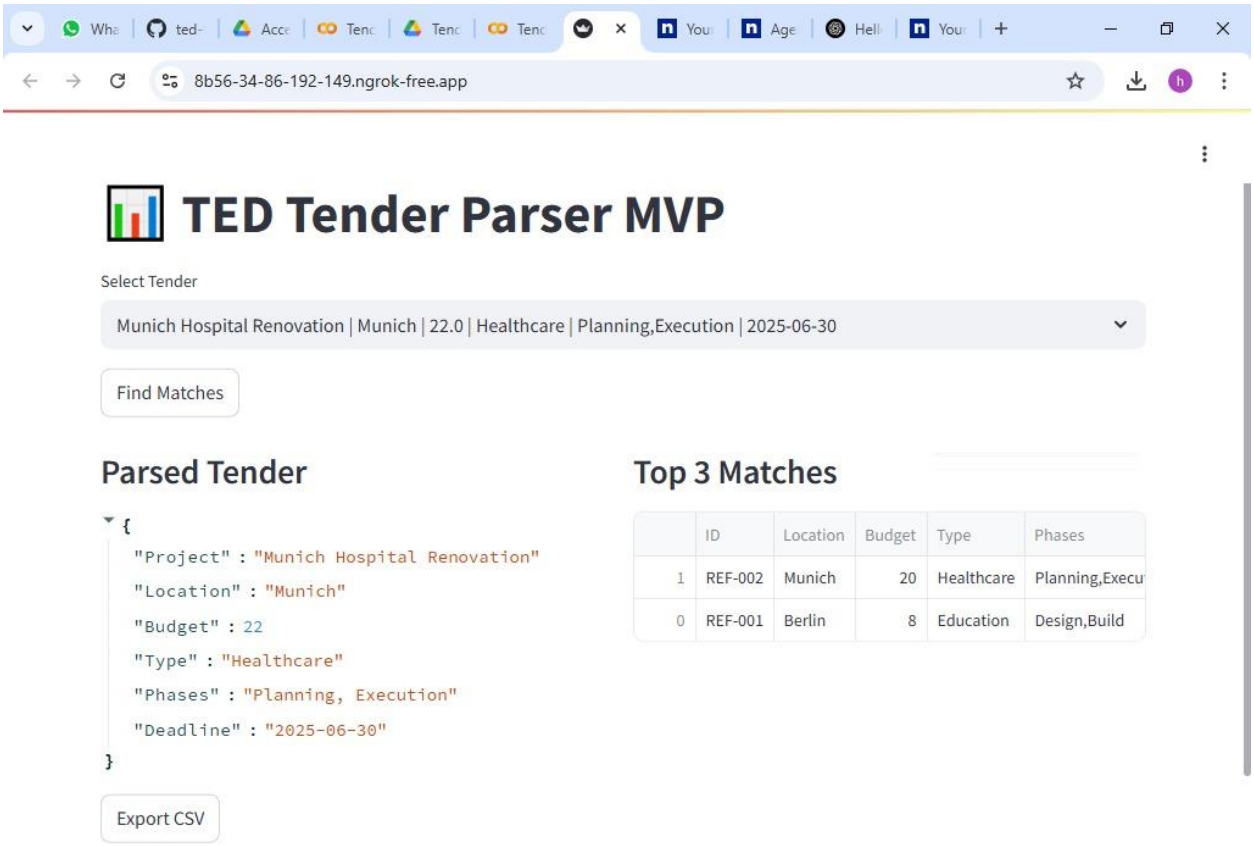
Then click visit site

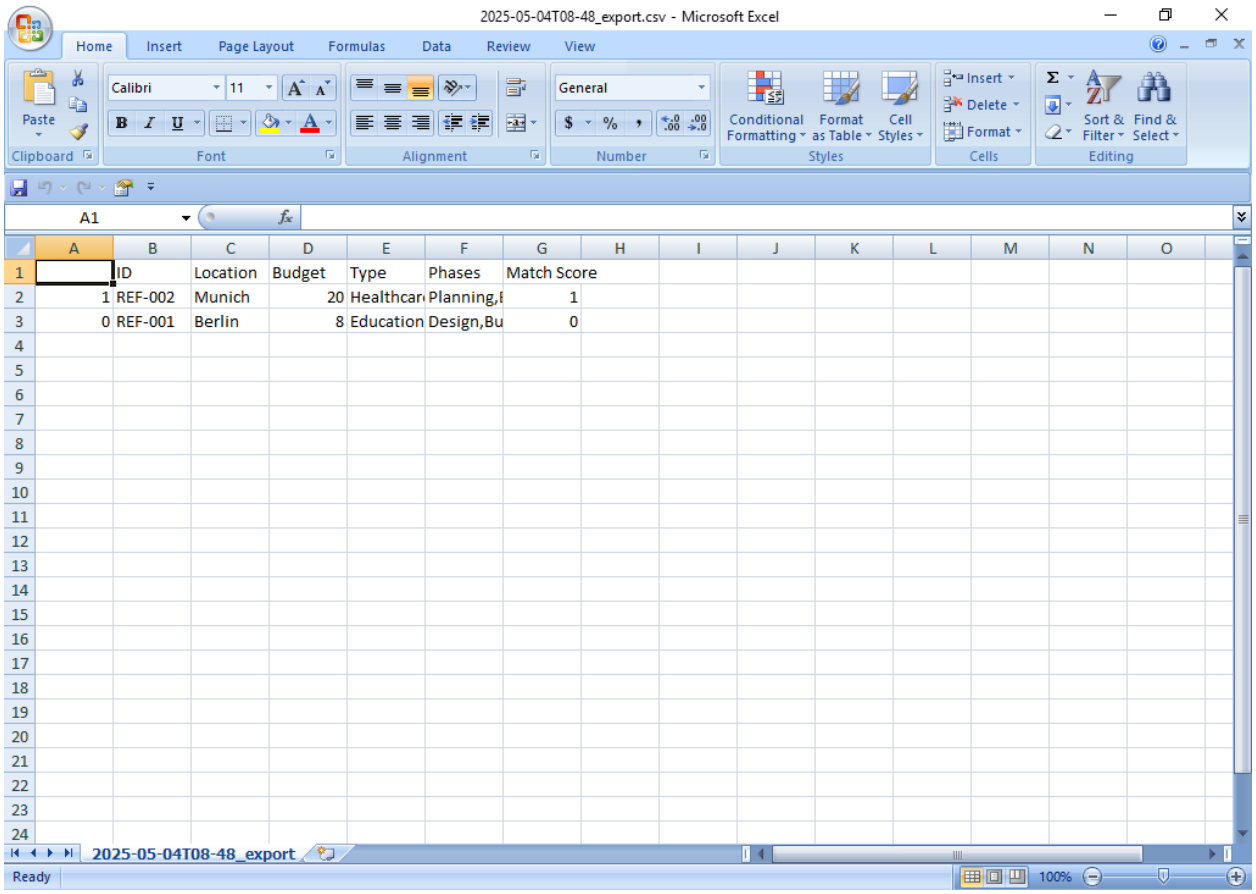


The project is live now; you can see everything and also download the CSV file




8b56-34-86-192-149.ngrok-free.app
TED Tender Parser MVP
Select Tender
Berlin School Construction | Berlin | 8.5 | Education | Design,Build | 2024-12-01
Find Matches
Parsed Tender
{
"Project" : "Berlin School Construction"
"Location" : "Berlin"
"Budget" : 8.5
"Type" : "Education"
"Phases" : "Design, Build"
"Deadline" : "2024-12-01"
}
Export CSV
Top 3 Matches
ID Location Budget Type Phases
0 REF-001 Berlin 8 Education Design,Build
1 REF-002 Munich 20 Healthcare Planning,Execu


8b56-34-86-192-149.ngrok-free.app
TED Tender Parser MVP
Select Tender
Munich Hospital Renovation | Munich | 22.0 | Healthcare | Planning,Execution | 2025-06-30
Find Matches
Parsed Tender
{
"Project" : "Munich Hospital Renovation"
"Location" : "Munich"
"Budget" : 22
"Type" : "Healthcare"
"Phases" : "Planning, Execution"
"Deadline" : "2025-06-30"
}
Export CSV
Top 3 Matches
ID Location Budget Type Phases
1 REF-002 Munich 20 Healthcare Planning,Execu
0 REF-001 Berlin 8 Education Design,Build


2025-05-04T08-48_export.csv - Microsoft Excel
Home
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Review
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Paste
Calibri
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Number
Styles
Cells
Editing
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Location
Budget
Type
Phases
Match Score
1
REF-002
Munich
20
Healthcar
Planning,
1
0
REF-001
Berlin
8
Education
Design,Bu
0
2025-05-04T08-48_export
Ready
100%